



**Federal Aviation
Administration**

DOT/FAA/AM-12/3
Office of Aerospace Medicine
Washington, DC 20591

2010 Aerospace Medical Certification Statistical Handbook

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Oklahoma City, OK 73125

February 2012

Final Report

OK-12-0025-JAH



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Technical Report Documentation Page

1. Report No. DOT/FAA/AM-12/3		2. Government Accession No.		3. Recipient's Catalog No.	
4. Title and Subtitle 2010 Aerospace Medical Certification Statistical Handbook				5. Report Date February 2012	
				6. Performing Organization Code	
7. Author(s) Skaggs VJ, Norris AI, Johnson R				8. Performing Organization Report No.	
9. Performing Organization Name and Address FAA Civil Aerospace Medical Institute P.O. Box 25082 Oklahoma City, OK 73125				10. Work Unit No. (TRAIS)	
				11. Contract or Grant No.	
12. Sponsoring Agency name and Address Office of Aerospace Medicine Federal Aviation Administration 800 Independence Ave., S.W. Washington, DC 20591				13. Type of Report and Period Covered	
				14. Sponsoring Agency Code	
15. Supplemental Notes					
16. Abstract <p>Introduction. The annual Aerospace Medical Certification Statistical Handbook reports descriptive characteristics of all active U.S. civil aviation airmen and the aviation medical examiners (AMEs) that perform the required medical examinations. This information has not been published since 1998, so in response to recent need, we reinstated the annual report. The 2010 annual handbook documents the most recent and most widely relevant data on active civil aviation airmen and AMEs.</p> <p>Methods. Medical certification records from 2006-2010 were selected from the Document Imaging Workflow System (DIWS) which is the FAA medical certification database. All medical data were abstracted from the most recent medical examinations with the exception of medical conditions which were historical and current. Only those with a non-expired medical certificate remained in the dataset. AME records were selected from the Aviation Medical Examiner Information System (AMEIS). The current status of each AME was determined for each year of the study period from 2008-2010, retaining only those with an active status. Airman variables include age, issued and effective medical classes, height, weight, BMI, gender, select medical conditions, special issuances, and FAA region of residence. AME variables include AME type, age, gender, medical specialty, pilot license status, senior examiner status, and region.</p> <p>Results. Airmen: As of December 31, 2010, there were 598,642 medically certified airmen age 16 and older, and 30.9%, 22.1%, and 47.0% were issued a Class 1, Class 2, and Class 3 medical certificate, respectively. Across all medical classes, the average age was 44 years and 93.5% of the airmen were male. The mean BMI for both females and males was 24.2 and 27.3 respectively. Six percent of issued certificates required a special issuance. The most commonly reported medical condition was <i>hypertension with medication</i>, at 11%.</p> <p>AMEs: Of the 3,651 active AMEs, 93% were civilian, 2.4% federal, and 4.6% military. Nearly 50% reported their medical specialty as family practice. Their average age was 59.4 years; the majority (52%) did not hold a pilot license, and 82% were male.</p> <p>Summary. This report contains widely requested data on the active U.S. civil airmen population that has not been readily accessible since 1998. This report will be updated annually and will be used by the aerospace community, including FAA leadership, aerospace researchers, advocacy groups, legislative staff, and the general public.</p>					
17. Key Words Pilot Medical Certification, Pilot Demographics, Pilot Medical Conditions, Pilot Statistics, Aviation Medical Examiners			18. Distribution Statement Document is available to the public through the Defense Technical Information Center, Ft. Belvoir, VA 22060; and the National Technical Information Service, Springfield, VA 22161		
19. Security Classif. (of this report) Unclassified		20. Security Classif. (of this page) Unclassified		21. No. of Pages 46	
				22. Price	

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Section I. Aviation Medical Examiners

This section characterizes the aviation medical examiners during 2010 with some comparative data from 2008 and 2009. All analyses represent data through December 31, 2010 unless otherwise noted.

An aviation medical examiner (AME) is a physician authorized by the Federal Aviation Administration (FAA) to perform airmen physical examinations for issuance of FAA medical certificates. These physicians are designated according to the geographical distribution of airmen. There are also military facilities (installations) designated to perform FAA airmen examinations of military personnel for issuance of second- and third-class certificates.

AME seminars are held in each region and at Oklahoma City's Civil Aerospace Medical Institute to acquaint these physicians with the regulations and procedures governing the issuance of FAA medical certificates.

Table 1. FAA Aviation Medical Examiners by Year and Type.

AME Type*	2008 Number (Percent of Total)	2009 Number (Percent of Total)	2010 Number (Percent of Total)
Civilian	3497 (90.2)	3350 (93.8)	3397 (93.0)
Federal	82 (2.1)	83 (2.3)	86 (2.4)
Military	299 (7.7)	138 (3.9)	168 (4.6)
Total	3878	3571	3651

*unknown AME type: 42 in 2008, 11 in 2009, 3 in 2010

Table 2. Designated FAA Aviation Medical Examiners by Year and Region

Region*	Newly Appointed Number (Percent of Total by Year)			All Active Number (Percent of Total by Year)		
	2008	2009	2010	2008	2009	2010
Alaskan	4 (3.3)	3 (2.1)	3 (2.0)	71 (1.8)	66 (1.9)	68 (1.9)
Central	7 (5.8)	8 (5.6)	9 (6.1)	198 (5.1)	184 (5.2)	185 (5.1)
Eastern	5 (4.1)	6 (4.2)	9 (6.1)	418 (10.8)	391 (11.0)	390 (10.7)
Federal/Official	3 (2.5)	6 (4.2)	4 (2.7)	102 (2.6)	103 (2.9)	111 (3.0)
Great Lakes	14 (11.6)	15 (10.5)	14 (9.5)	539 (13.9)	515 (14.4)	514 (14.1)
International	6 (5.0)	13 (9.1)	21 (14.3)	283 (7.3)	293 (8.2)	312 (8.6)
Military	39 (32.2)	31 (21.7)	27 (18.4)	289 (7.5)	129 (3.6)	158 (4.3)
New England	6 (5.0)	6 (4.2)	7 (4.8)	113 (2.9)	112 (3.1)	118 (3.2)
Northwest Mountain	8 (6.6)	12 (8.4)	12 (8.2)	379 (9.8)	357 (10.0)	358 (9.8)
Southern	10 (8.3)	17 (11.9)	16 (10.9)	753 (19.4)	703 (19.7)	711 (19.5)
Southwest	13 (10.7)	20 (14.0)	15 (10.2)	423 (10.9)	421 (11.8)	422 (11.6)
Western-Pacific	6 (5.0)	6 (4.2)	10 (6.8)	310 (8.0)	297 (8.3)	304 (8.3)
Total	121	143	147	3878	3571	3651

*unknown region: 42 in 2008, 11 in 2009, 3 in 2010

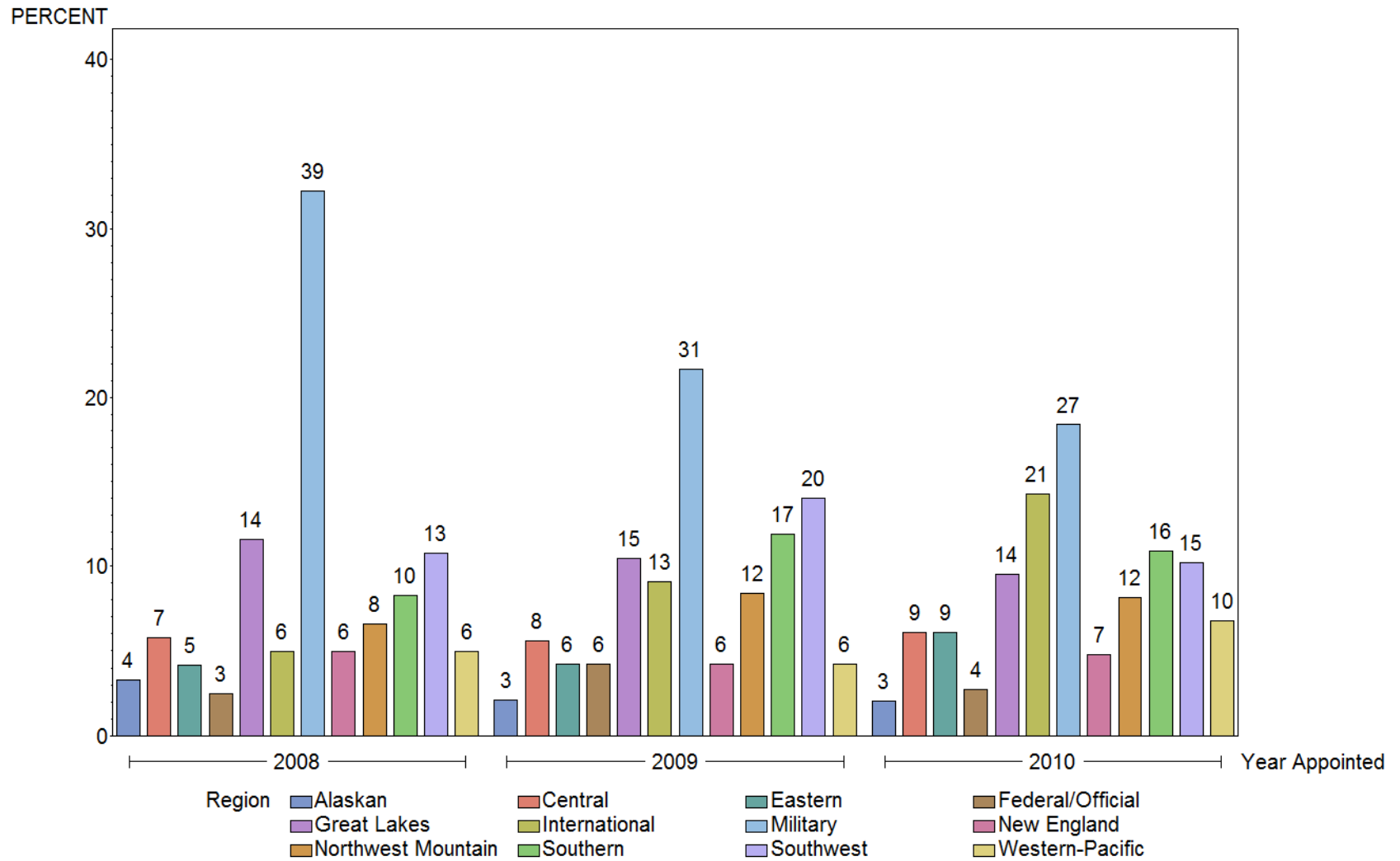


Figure 1. Distribution of Newly Appointed FAA Aviation Medical Examiners by Region and Year

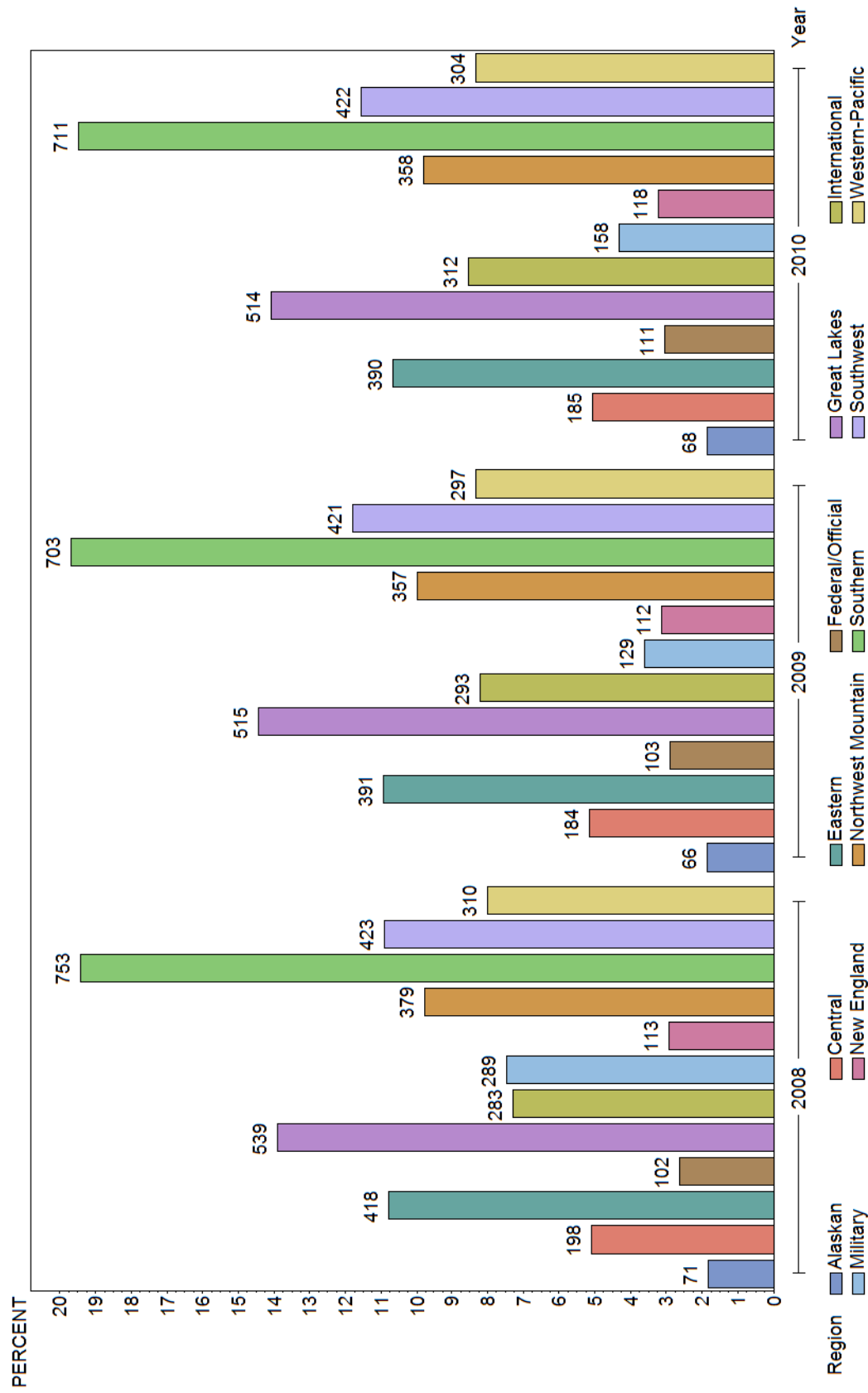


Figure 2. Distribution of Active FAA Aviation Medical Examiners by Region and Year

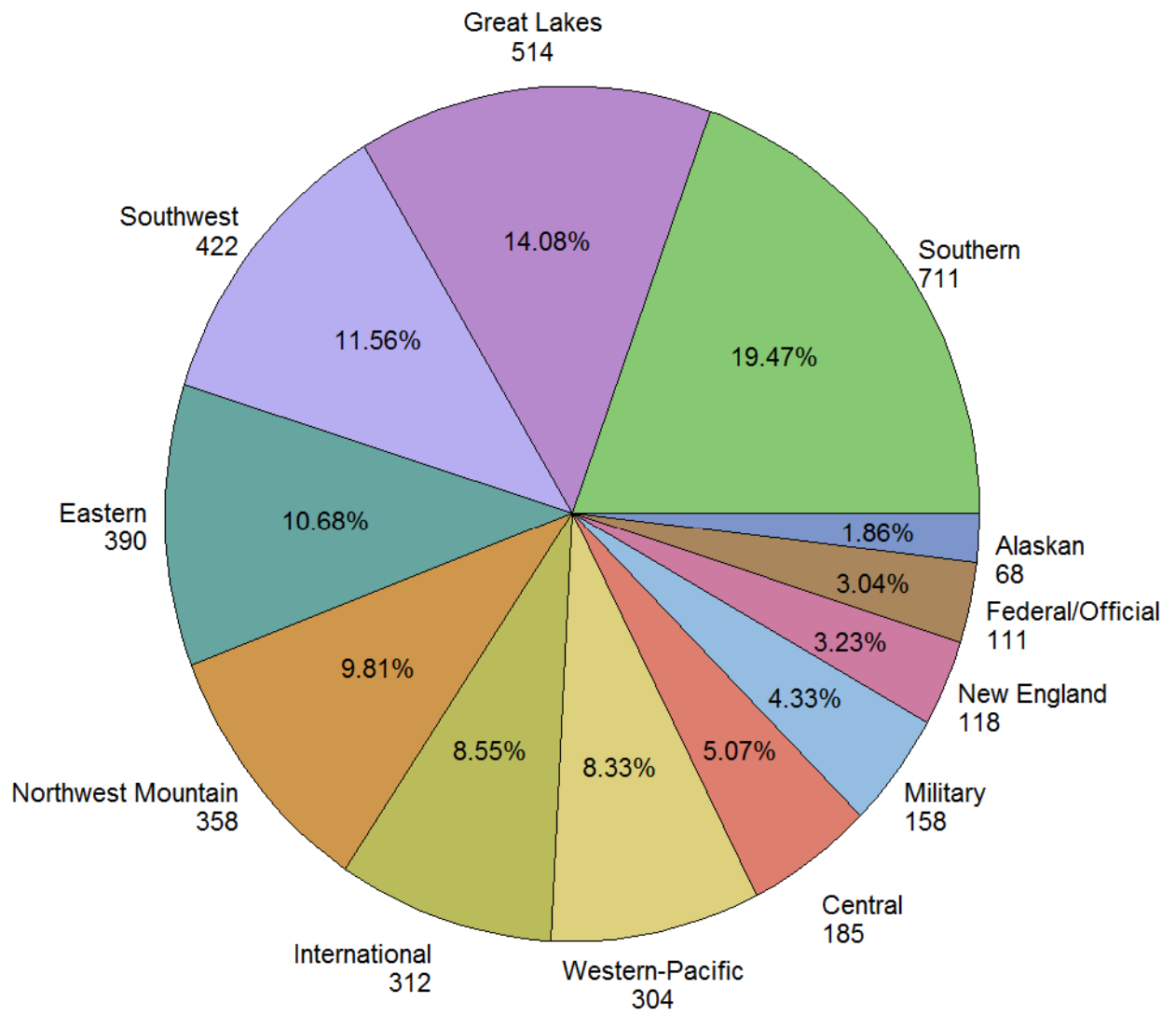


Figure 3. Distribution of Active FAA Aviation Medical Examiners by Region

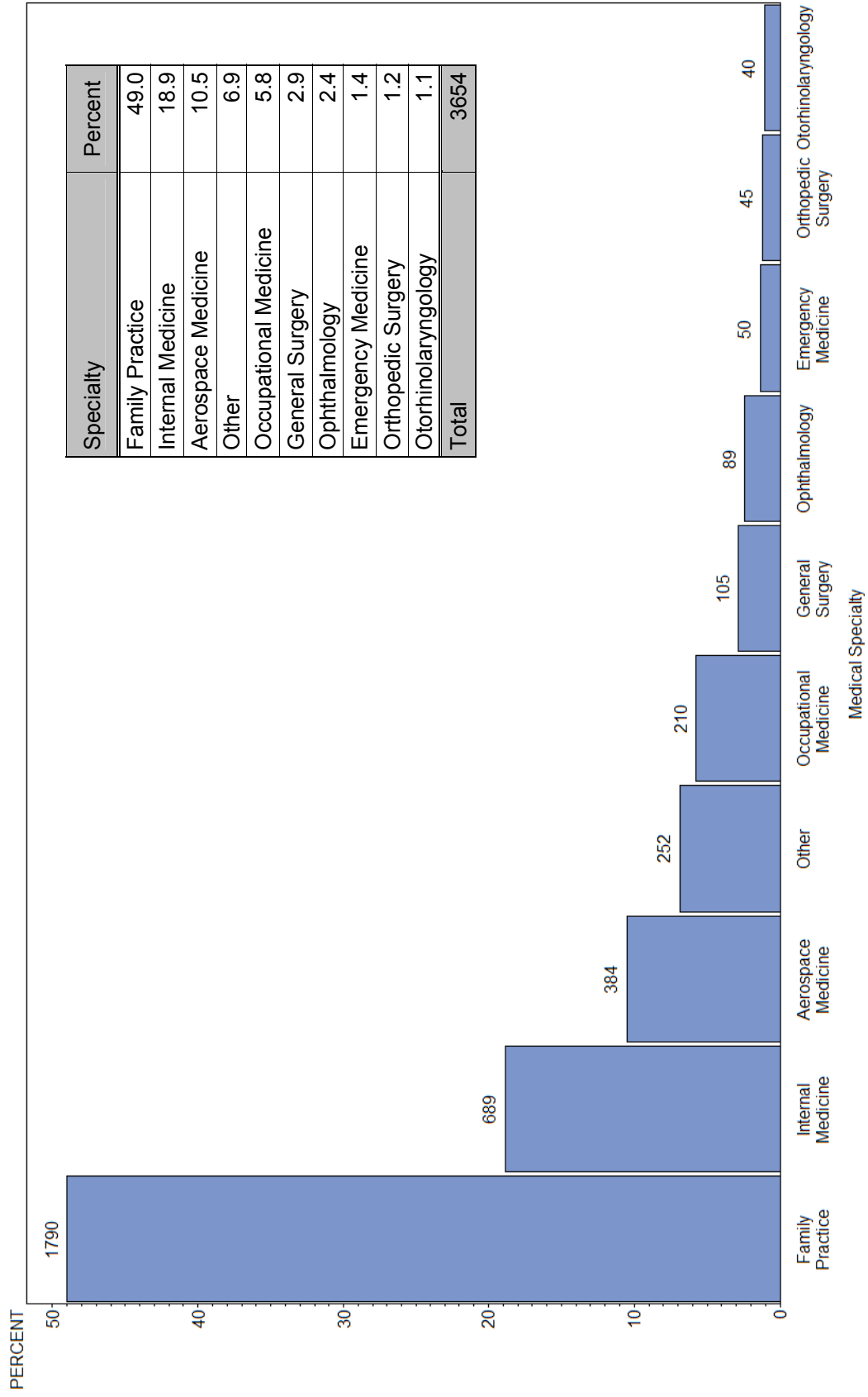


Figure 4. Medical Practice Specialty of Active FAA Aviation Medical Examiners

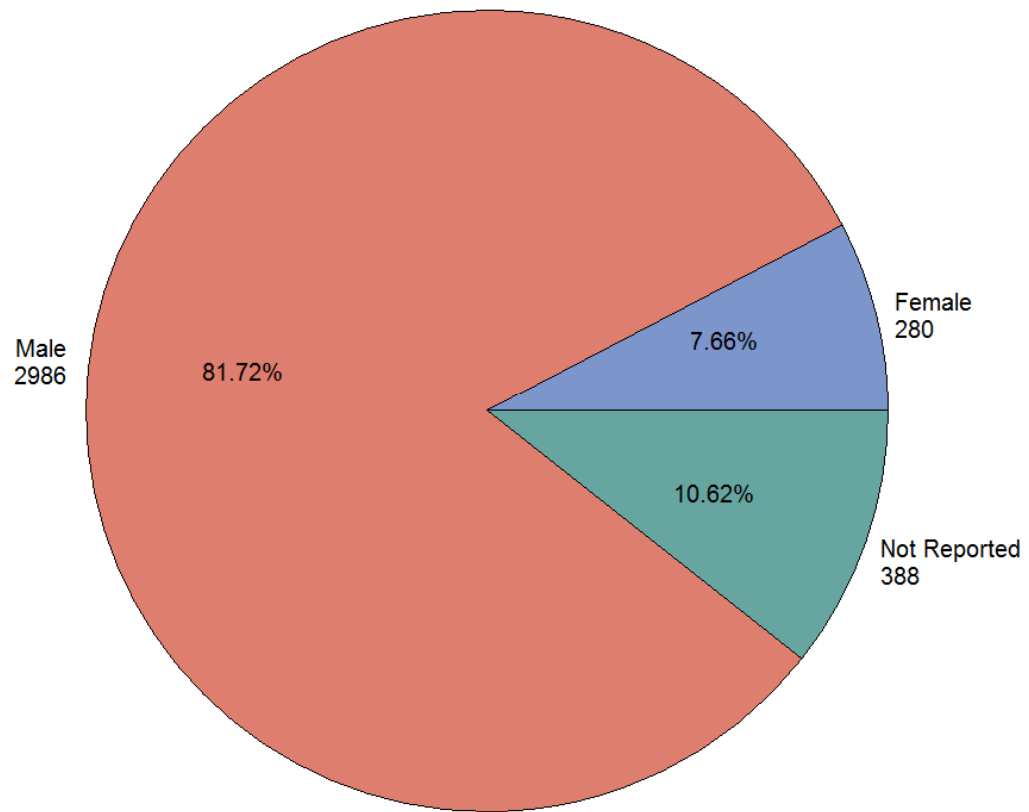


Figure 5. Gender Distribution of Active FAA Aviation Medical Examiners

Table 3. Pilot License Type of Active FAA Aviation Medical Examiners

Pilot License Type*	Number (Percent)
Air Transport	39 (1.1)
Commercial – Instrument Flight Rules	167 (4.6)
Commercial	84 (2.3)
Private – Instrument Flight Rules	148 (4.1)
Private	1155 (31.6)
Recreational	2 (0.1)
Student	152 (4.2)
None	1904 (52.2)
Total	3651

*3 unknown pilot license type

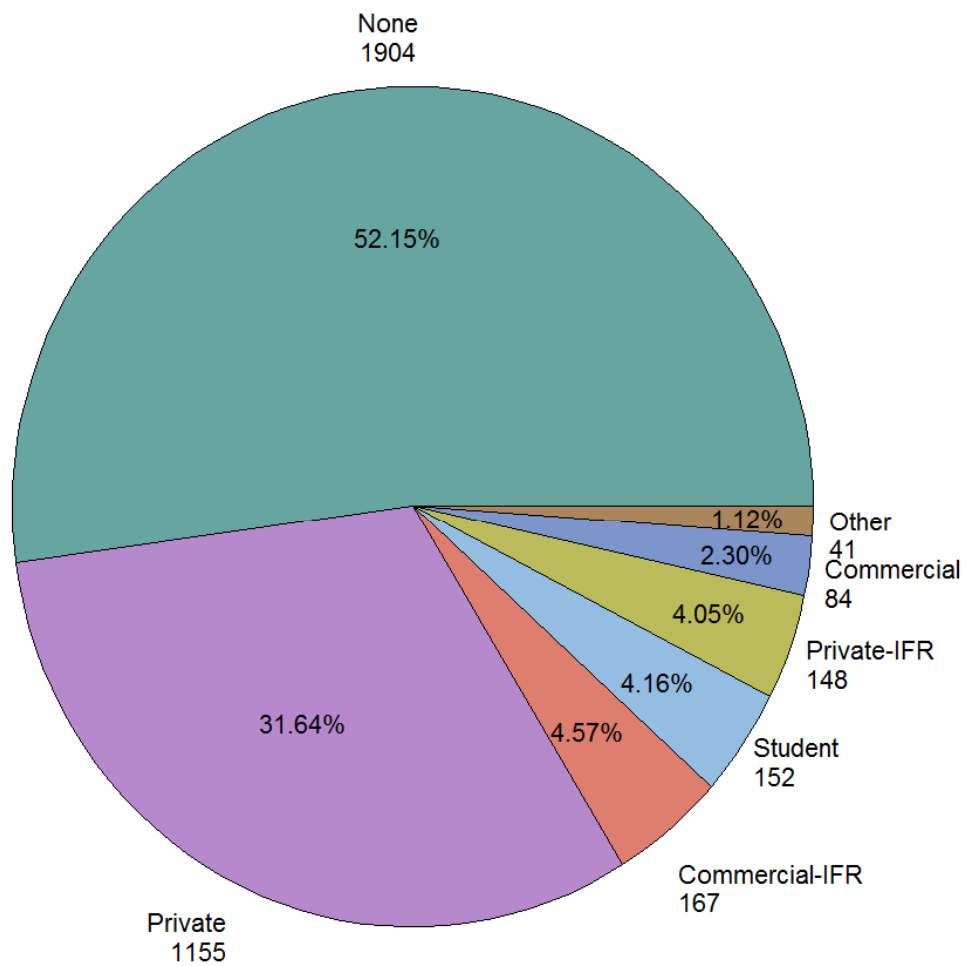


Figure 6. Pilot License Type of Active FAA Aviation Medical Examiners

Table 4. Senior Examiner Status of Active FAA Aviation Medical Examiners

Senior Examiner*	Number (Percent)
Yes	2147 (58.8)
No	1504 (41.2)
Total	3651

*3 unknown senior examiner status

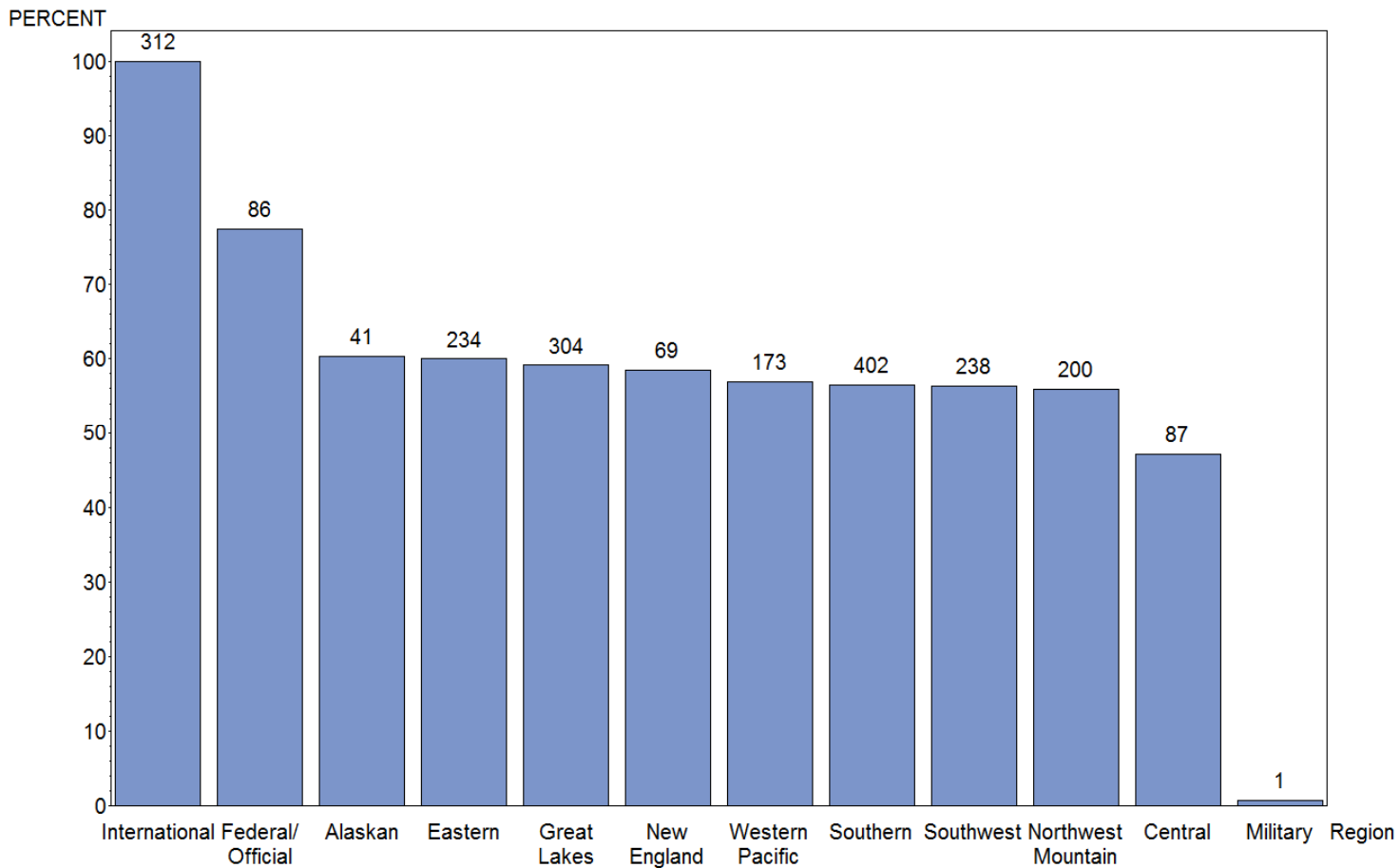


Figure 7. Senior Examiner Status of Active FAA Aviation Medical Examiners by Region

Table 5. Age by Gender of Active FAA Aviation Medical Examiners

		Number	Mean	Median	Standard Deviation	Minimum	Maximum
Overall		3651	59.4	58.9	11.2	28.4	92.4
Gender	Male	2986	59.7	59.1	11.3	28.4	92.4
	Female	280	51.6	52.0	8.9	30.4	81.2
	Not Reported	385	62.6	62.8	9.3	35.0	87.8

*3 unknown age

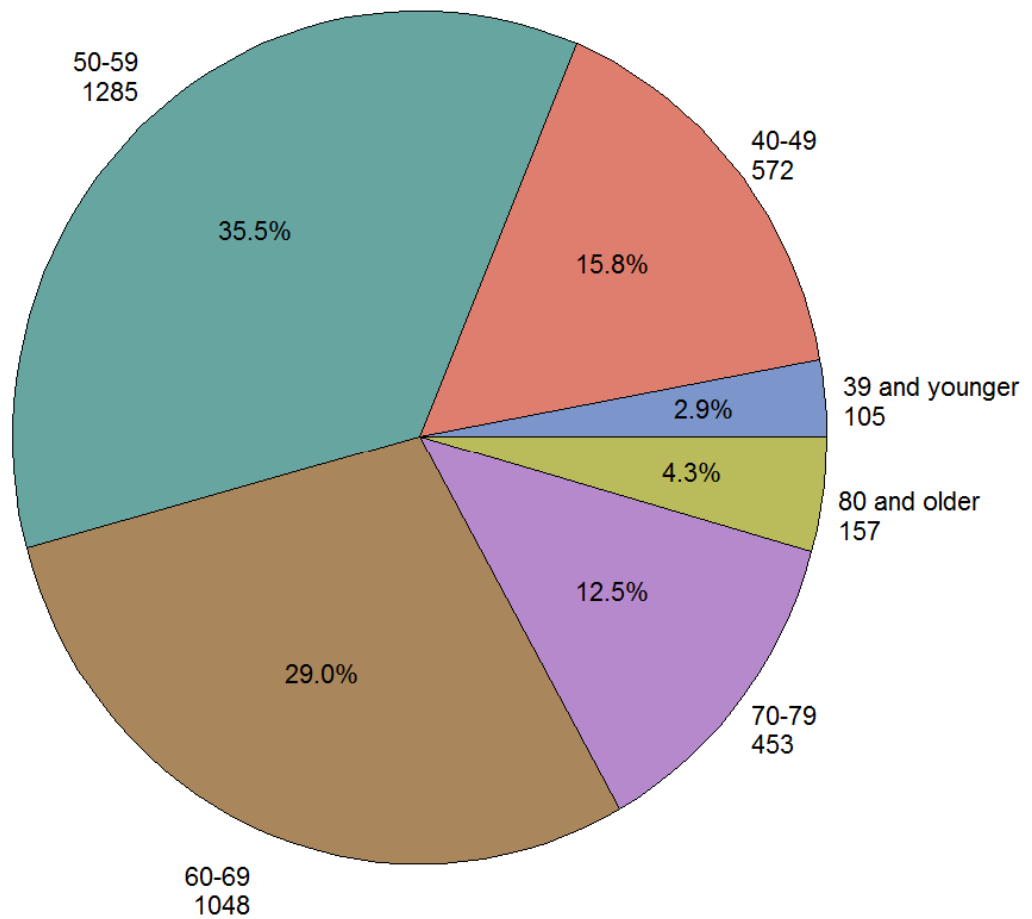


Figure 8. Age Group of Active FAA Aviation Medical Examiners

Section II. Airman Medical Certification

The Aerospace Medical Certification Division is the central screening facility and repository within the Federal Aviation Administration for collection, investigation, adjudication, and analysis of medical data.

Activities of the Aerospace Medical Certification Division are presented in this section. Data are presented by calendar year and represent the most recent medical examination data for all active civil aviation airmen in the United States and its territories as of December 31, 2010.

Class issued represents the medical class certificate that was issued at the time of the examination. As of July 24, 2008, if the airman is under 40, first- and second-class certificates are valid for 1 year and third-class certificates are valid for 5 years. If the airman is 40 and older, first-class certificates are valid for 6 months, second-class for 1 year, and third-class for 2 years. The length of certificate validity varies for those requiring a special issuance.

Effective medical class is determined by class issued, the age of the airman, time since exam, and whether the airman had a time limited certificate. A certificate can be issued as a higher class (i.e. first-class) and become valid as a lower class certificate (i.e. third-class) as the validity period expires for each higher class.

All medical data were abstracted from the most recent medical examinations with the exception of medical conditions. Medical conditions are determined by whether the airman has ever reported the condition on any past or current medical examination. Body mass index (BMI) classifications are as follows: Underweight (less than 18.5), Normal (18.5 to 24.9), Overweight (25 to 29.9), and Obese (greater than or equal to 30).

Table 6. Number of Medical Applications Processed by Year

Year	Number of Applications	Percent Change From Previous Year
2000	453,595	N/A
2001	454,428	0.2
2002	444,213	-2.2
2003	444,732	0.1
2004	444,248	-0.1
2005	438,414	-1.3
2006	440,267	0.4
2007	452,583	2.8
2008*	425,247	-6.0
2009	397,138	-6.6
2010	394,562	-0.6

*Policy change July 24, 2008 lengthened the time of certificate validity for those under 40 years of age.

Table 7. Issued and Effective Medical Class by Region

Region *	Issued Medical Class										Total Active Airmen			
	First			Second			Third				Effective Class			
	1 st Class Certified	1	2	3	2nd Class Certified	2	3	3rd Class Certified	3	Total Airmen Certified	Percent of Total Airmen	1	2	3
Alaskan	1,893	1,427	164	302	2,326	1,440	886	3,964	3,964	8,183	1.4	1,427	1,604	5,152
Central	4,776	3,095	474	1,207	5,941	3,633	2,308	14,129	14,129	24,846	4.2	3,095	4,107	17,644
Eastern	18,809	12,553	1,472	4,784	13,667	7,616	6,051	33,717	33,717	66,193	11.1	12,553	9,088	44,552
Great Lakes	26,126	17,617	1,728	6,781	15,770	9,196	6,574	41,230	41,230	83,126	13.9	17,617	10,924	54,585
New England	6,225	4,193	445	1,587	4,282	2,400	1,882	11,059	11,059	21,566	3.6	4,193	2,845	14,528
Northwest-Mountain	18,830	12,207	1,566	5,057	15,781	8,529	7,252	28,648	28,648	63,259	10.6	12,207	10,095	40,957
Southern	41,689	28,919	3,650	9,120	26,542	16,011	10,531	52,057	52,057	120,288	20.1	28,919	19,661	71,708
Southwest	20,759	14,079	1,698	4,982	17,789	10,921	6,868	33,080	33,080	71,628	12.0	14,079	12,619	44,930
Western-Pacific	23,746	14,804	2,040	6,902	20,145	11,514	8,631	44,980	44,980	88,871	14.9	14,804	13,554	60,513
US Total	162,853	108,894	13,237	40,722	122,243	71,260	50,983	262,864	262,864	547,960	91.6	108,894	84,497	354,569
Military	4	1	0	3	2,492	912	1,580	5,993	5,993	8,489	1.4	1	912	7,576
International	22,153	9,776	1,825	10,552	7,355	3,031	4,324	12,189	12,189	41,697	7.0	9,776	4,856	27,065
Total	185,010	118,671	15,062	51,277	132,090	75,203	56,887	281,046	281,046	598,146	100	118,671	90,265	389,210
Percent of Total Certified Airmen	30.9				22.1			47.0			100.0	19.8	15.1	65.1

* 496 airmen with unknown region

Table 8. Issued Medical Class by State of Residence and Gender

State of Residence *	Issued Medical Class						Total Airmen	
	First		Second		Third			
	Female	Male	Female	Male	Female	Male	Female	Male
Alabama	42	1,114	77	2,438	244	3,883	363	7,435
Alaska	140	1,753	183	2,143	378	3,586	701	7,482
Arizona	370	6,117	287	3,918	651	7,996	1,308	18,031
Arkansas	51	850	45	1,467	172	2,438	268	4,755
California	974	12,642	900	12,528	2,658	29,890	4,532	55,060
Colorado	509	5,813	205	2,893	545	6,135	1,259	14,841
Connecticut	87	1,600	61	967	193	2,517	341	5,084
Delaware	19	369	10	311	45	629	74	1,309
District of Columbia	10	95	8	80	39	280	57	455
Florida	1,014	17,380	643	10,398	1,663	18,328	3,320	46,106
Georgia	362	7,311	193	3,452	530	7,129	1,085	17,892
Hawaii	125	1,239	80	698	83	616	288	2,553
Idaho	45	739	80	1,383	189	2,334	314	4,456
Illinois	418	5,578	218	3,060	528	7,347	1,164	15,985
Indiana	179	2,923	91	1,738	309	4,672	579	9,333
Iowa	29	638	42	1,158	200	3,114	271	4,910
Kansas	57	1,179	81	1,713	298	3,735	436	6,627
Kentucky	117	2,505	66	980	185	2,403	368	5,888
Louisiana	44	1,187	75	1,723	158	2,387	277	5,297
Maine	34	468	43	549	95	1,311	172	2,328
Maryland	95	1,694	122	1,562	334	3,755	551	7,011
Massachusetts	145	1,898	107	1,346	343	4,014	595	7,258
Michigan	294	4,018	157	2,305	494	6,612	945	12,935
Minnesota	277	4,127	133	2,124	368	5,345	778	11,596
Mississippi	48	981	39	1,042	125	1,930	212	3,953
Missouri	92	2,148	102	2,043	317	4,416	511	8,607
Montana	60	613	70	1,078	171	1,958	301	3,649
Nebraska	31	602	19	783	125	1,924	175	3,309
Nevada	110	1,976	112	1,492	261	2,585	483	6,053
New Hampshire	76	1,306	58	735	103	1,365	237	3,406
New Jersey	156	2,655	112	1,609	325	4,179	593	8,443
New Mexico	36	605	96	1,038	174	1,898	306	3,541
New York	268	4,312	208	2,979	589	7,849	1,065	15,140
North Carolina	200	3,868	135	2,602	433	6,509	768	12,979
North Dakota	36	817	34	867	53	1,102	123	2,786
Ohio	251	4,675	175	2,473	525	7,316	951	14,464
Oklahoma	78	1,447	128	2,126	319	4,158	525	7,731
Oregon	112	1,401	215	2,535	388	4,359	715	8,295
Pennsylvania	235	4,464	225	3,083	527	7,144	987	14,691
Rhode Island	27	300	12	161	35	443	74	904
South Carolina	80	1,559	74	1,357	207	3,096	361	6,012
South Dakota	30	305	30	652	53	1,035	113	1,992
Tennessee	205	4,048	147	2,430	302	4,353	654	10,831
Texas	744	15,717	609	10,482	1,579	19,797	2,932	45,996
Utah	155	2,946	152	2,361	169	2,460	476	7,767
Vermont	23	261	18	225	44	596	85	1,082
Virginia	238	3,824	171	2,664	584	6,202	993	12,690
Washington	444	5,697	308	4,077	694	8,086	1,446	17,860
West Virginia	17	283	20	371	64	1,001	101	1,655
Wisconsin	120	2,078	90	1,623	368	5,103	578	8,804
Wyoming	13	283	29	395	90	1,070	132	1,748
US Territories	41	1,063	38	687	73	1,064	152	2,814
Military	1	3	80	2,412	551	5,442	632	7,857
International	1,230	20,923	387	6,968	800	11,389	2,417	39,280
Total	10,594	174,397	7,800	124,284	20,750	260,285	39,144	558,966

*532 airmen missing state

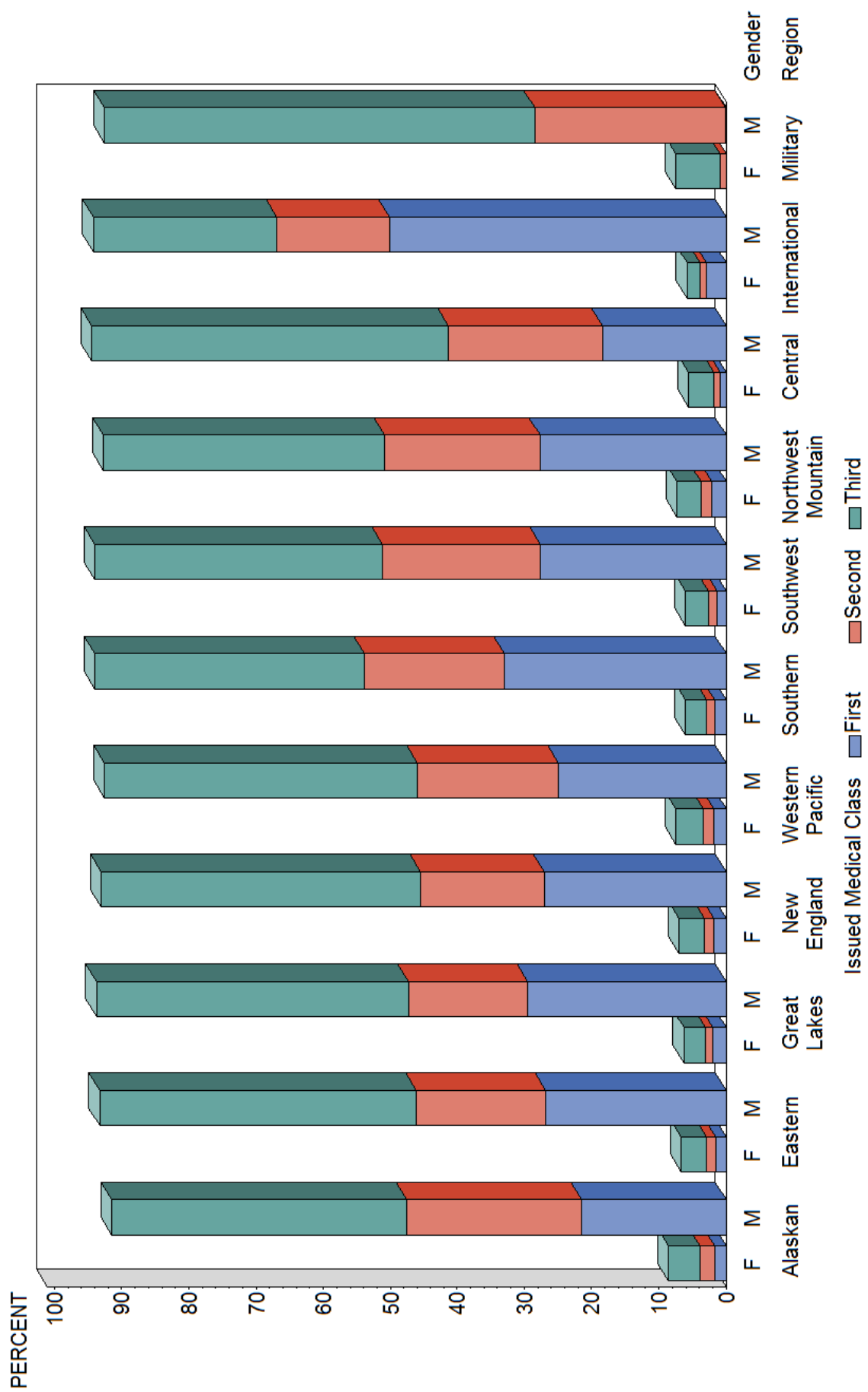


Figure 9. Issued Medical Class by Region and Gender

Table 9. Age as of 12/31/2010 of all Active Airmen by Effective Medical Class

Effective Medical Class	Number of airmen	Mean	Median	Standard Deviation
First	118,769	43.1	44.0	12.0
Second	90,315	49.1	49.6	13.4
Third	389,558	43.1	41.1	16.3
All Classes	598,642	44.0	43.6	15.3

Table 10. Age Groups of all Active Airmen by Effective Medical Class

Age Group (as of 12/31/2010)	Effective Medical Class Number (Percent)		
	First	Second	Third
16-20	2,403 (2.02)	1,467 (1.62)	10,292 (2.64)
20-24	6,647 (5.60)	3,892 (4.31)	50,418 (12.94)
25-29	11,523 (9.70)	4,880 (5.40)	51,083 (13.11)
30-34	12,906 (10.87)	4,208 (4.66)	37,598 (9.65)
35-39	14,488 (12.20)	5,198 (5.76)	36,264 (9.31)
40-44	14,441 (12.16)	11,884 (13.16)	36,064 (9.26)
45-49	16,934 (14.26)	14,861 (16.45)	28,879 (7.41)
50-54	18,093 (15.23)	12,976 (14.37)	34,016 (8.73)
55-59	12,922 (10.88)	10,848 (12.01)	33,470 (8.59)
60-64	6,828 (5.75)	9,912 (10.97)	28,596 (7.34)
65+	1,584 (1.33)	10,189 (11.28)	42,878 (11.01)
Total	118,769 (19.84)	90,315 (15.09)	389,558 (65.07)

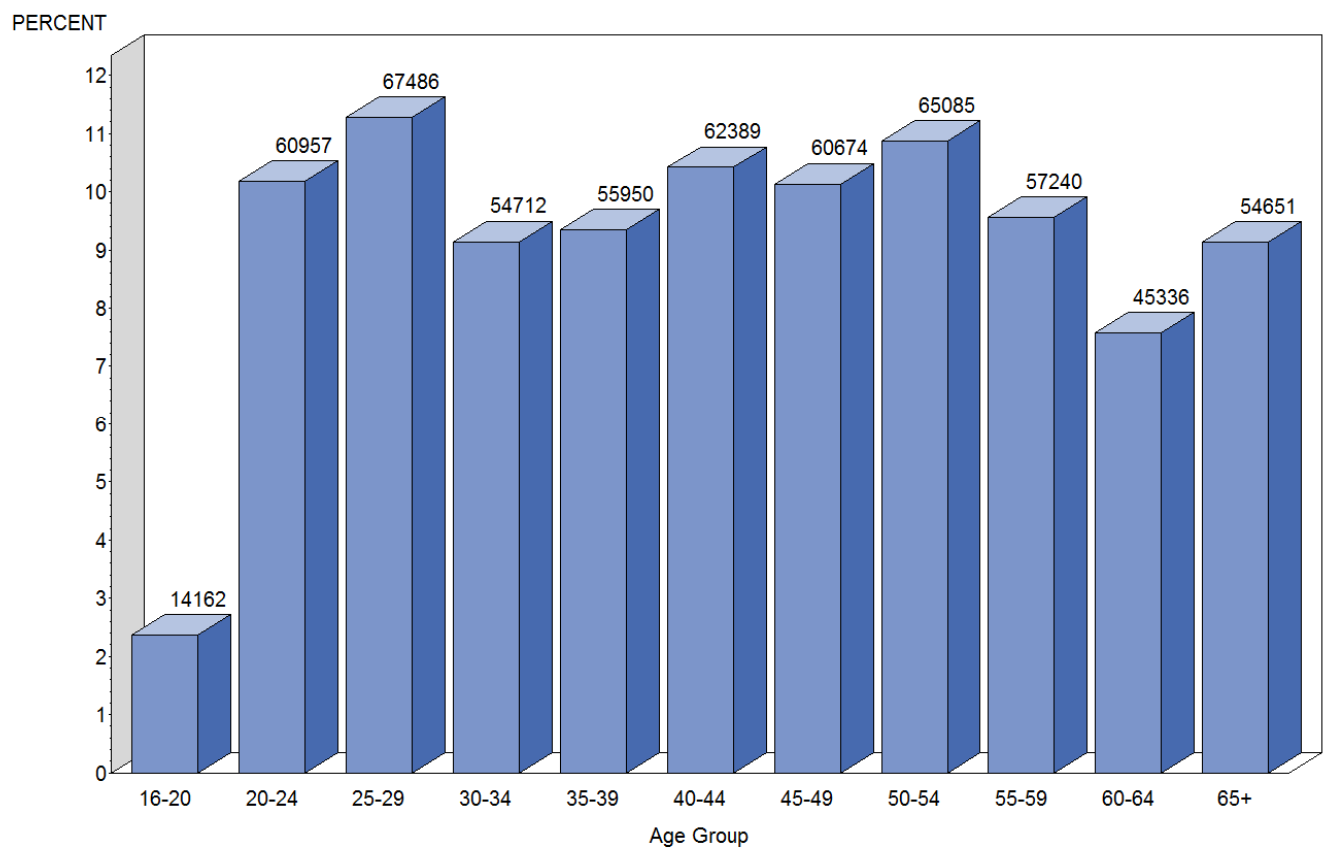


Figure 10. Age Groups as of 12/31/2010 of all Active Airmen

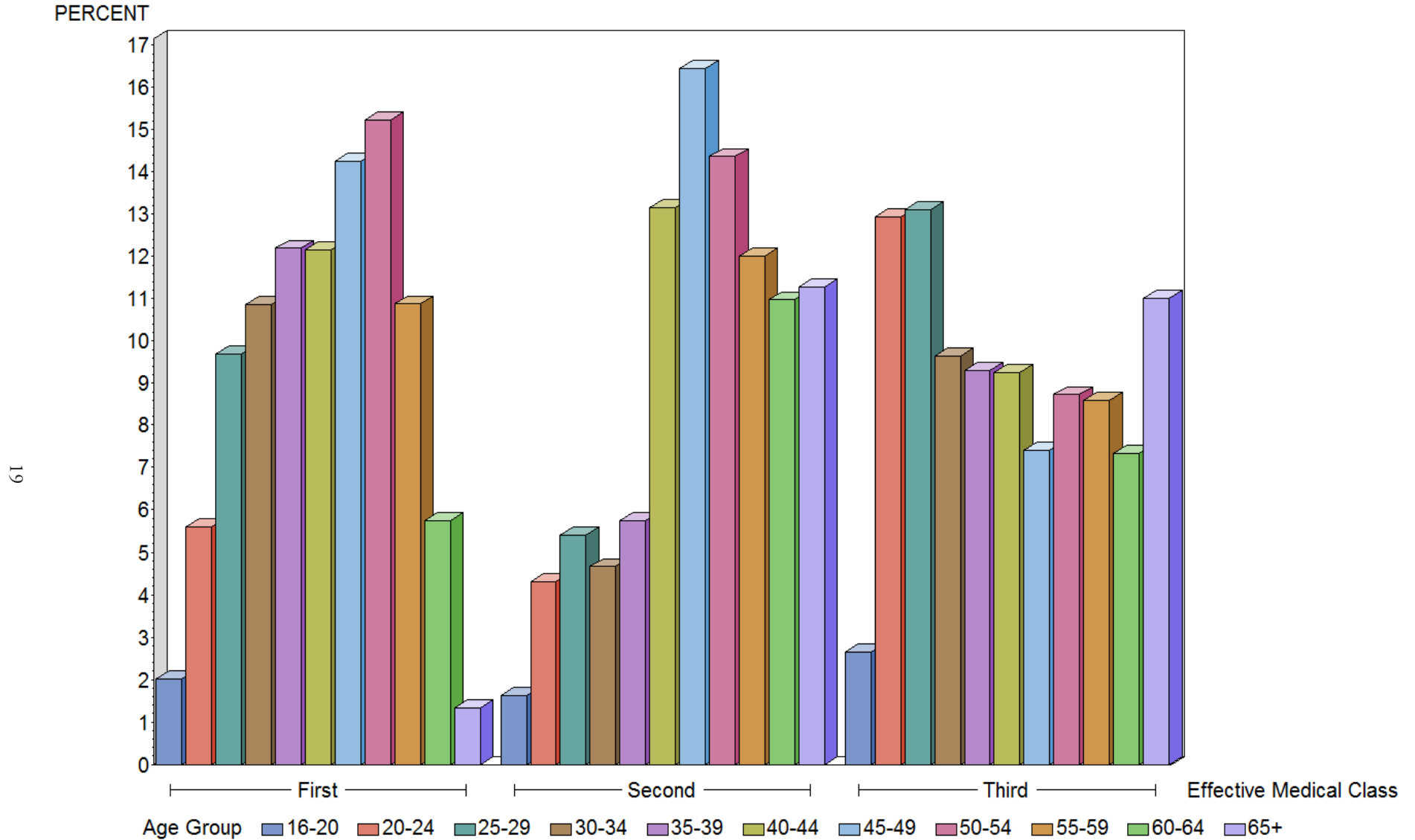


Figure 11. Age Groups as of 12/31/2010 by Effective Medical Class for all Active Airmen

Table 11. Age at Exam Summary Statistics for Active Airmen by Issued Medical Class

Issued Medical Class	Number of airmen	Mean	Median	Standard Deviation
First	185,206	39.6	39.5	13.3
Second	132,153	43.1	43.2	15.6
Third	281,283	44.3	45.3	17.1
All Classes	598,642	42.6	42.7	15.8

Table 12. Age Groups for all Active Airmen by Issued Medical Class

Age Group (at time of exam)	Issued Medical Class Number (Percent)		
	First	Second	Third
16-20	12,387 (6.69)	7,903 (5.98)	19,197 (6.82)
20-24	20,514 (11.08)	13,922 (10.53)	32,467 (11.54)
25-29	21,656 (11.69)	13,230 (10.01)	24,393 (8.67)
30-34	20,507 (11.07)	10,725 (8.12)	21,461 (7.63)
35-39	20,054 (10.83)	13,538 (10.24)	25,522 (9.07)
40-44	19,135 (10.33)	11,278 (8.53)	16,185 (5.75)
45-49	22,531 (12.17)	14,154 (10.71)	25,361 (9.02)
50-54	21,513 (11.62)	13,449 (10.18)	30,102 (10.70)
55-59	15,406 (8.32)	11,538 (8.73)	28,398 (10.10)
60-64	8,843 (4.77)	10,910 (8.26)	23,268 (8.27)
65+	2,660 (1.44)	11,506 (8.71)	34,929 (12.42)
Total	185,206 (30.94)	132,153 (22.08)	281,283 (46.99)

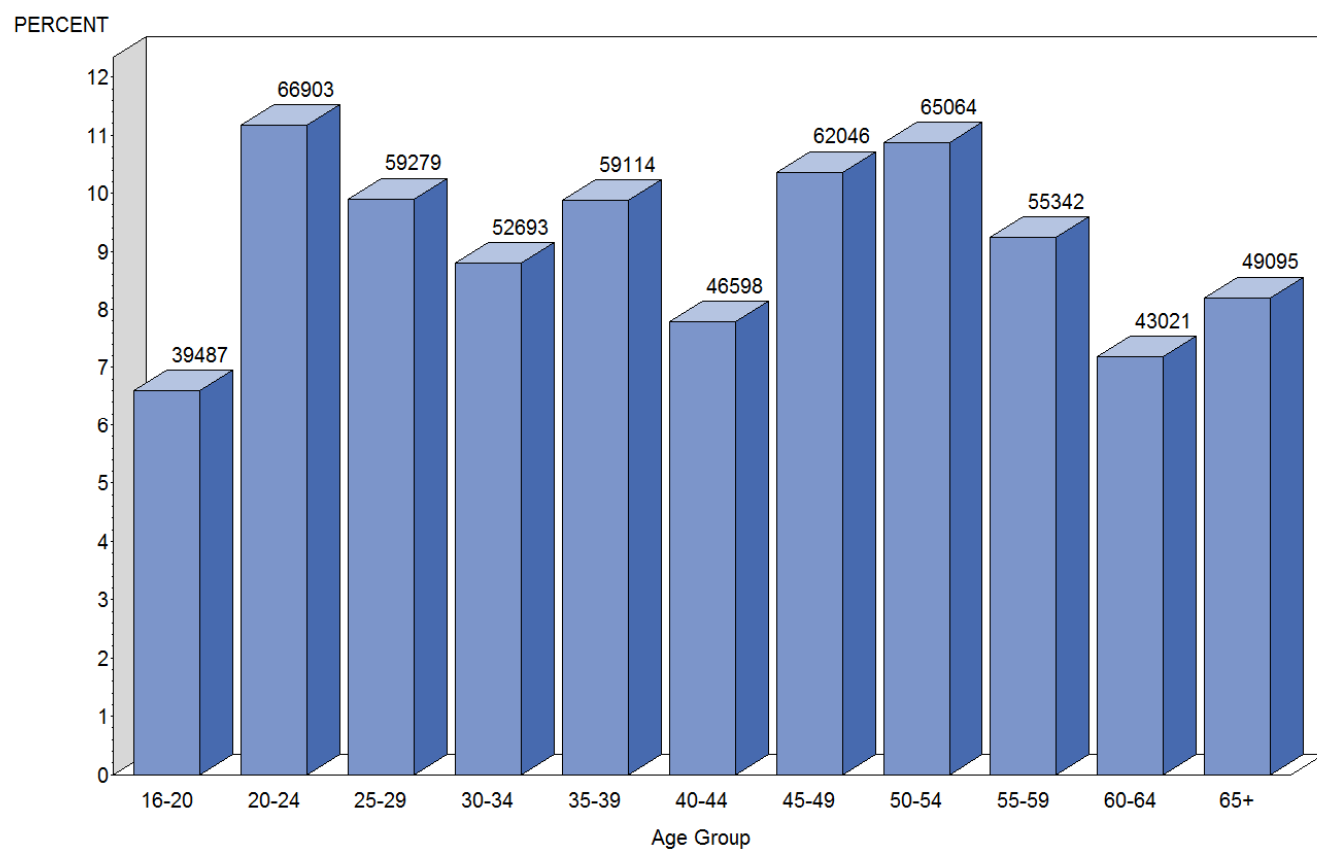


Figure 12. Age Group of all Active Airmen at Time of Exam

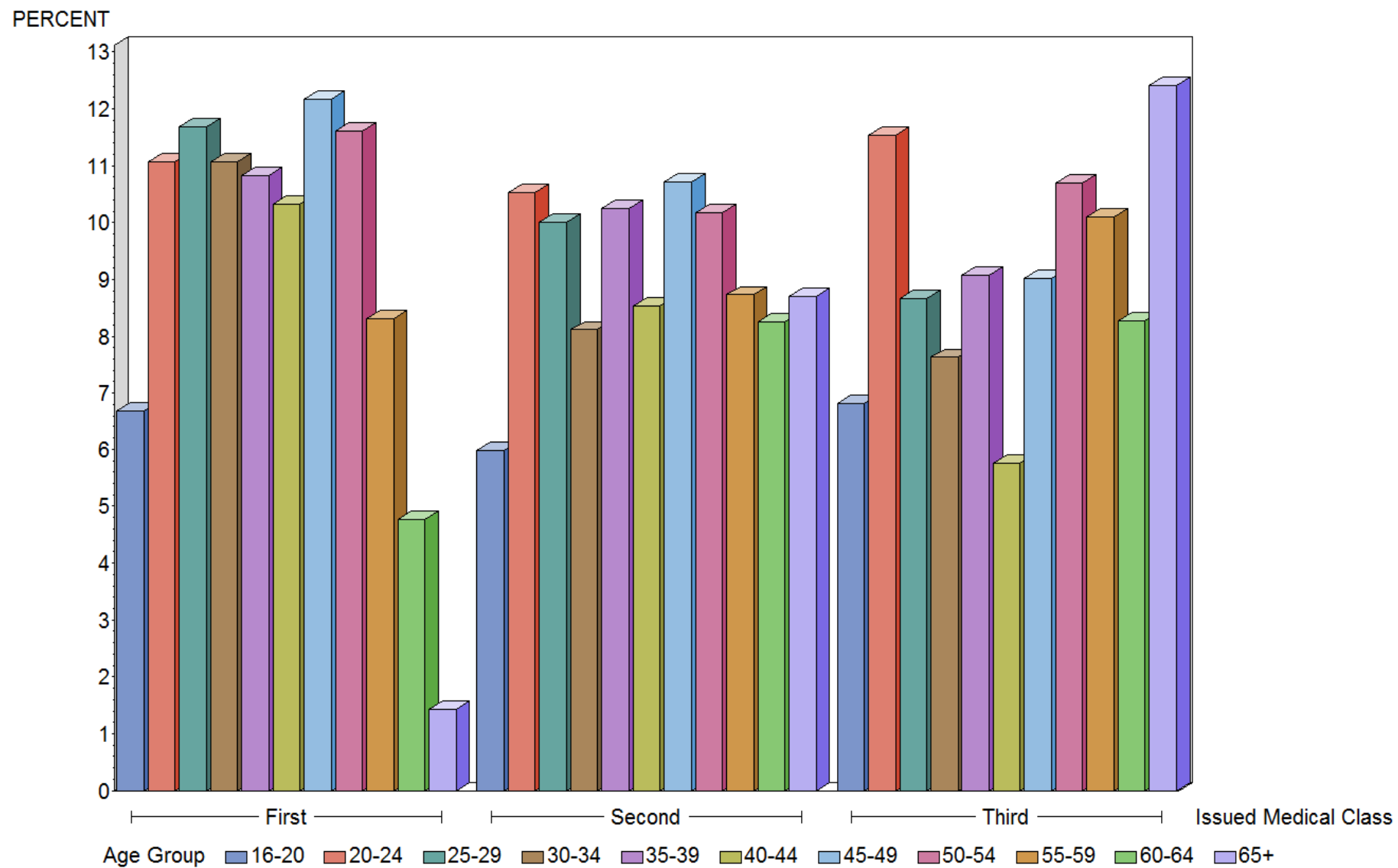


Figure 13. Age Groups by Issued Medical Class for all Active Airmen at Time of Exam

Table 13. Age at Time of Exam by Issued Medical Class and Gender

Age Group	Issued Medical Class							
	First		Second		Third		Total Airmen	
	Female	Male	Female	Male	Female	Male	Female	Male
16-20	1,459	10,928	1,039	6,864	2,821	16,376	5,319	34,168
20-24	1,822	18,692	1,214	12,708	3,378	29,089	6,414	60,489
25-29	1,668	19,988	1,137	12,093	2,330	22,063	5,135	54,144
30-34	1,561	18,946	845	9,880	1,820	19,641	4,226	48,467
35-39	1,225	18,829	894	12,644	2,059	23,463	4,178	54,936
40-44	929	18,206	596	10,682	1,097	15,088	2,622	43,976
45-49	886	21,645	680	13,474	1,575	23,786	3,141	58,905
50-54	654	20,859	549	12,900	1,853	28,249	3,056	62,008
55-59	334	15,072	420	11,118	1,572	26,826	2,326	53,016
60-64	67	8,776	238	10,672	1,058	22,210	1,363	41,658
65+	12	2,648	195	11,311	1,223	33,706	1,430	47,665
Total	10,617	174,589	7,807	124,346	20,786	260,497	39,210	559,432

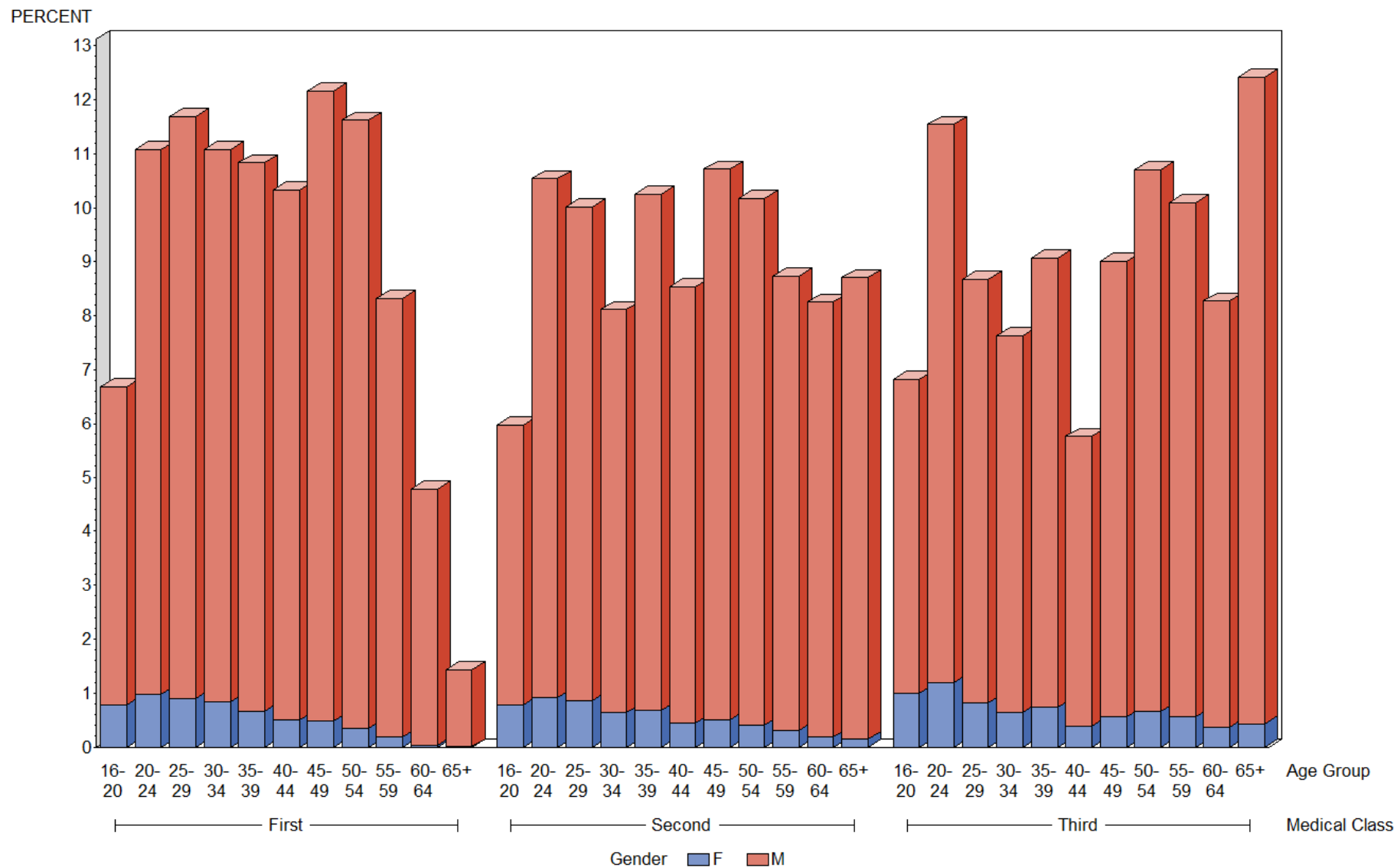


Figure 14. Age Group at Time of Exam by Gender and Issued Medical Class

Table 14. Height of all Active Airmen by Gender and Issued Medical Class

Issued Medical Class*		Number of airmen	Mean	Median	Standard Deviation
First	Females	10,616	65.5	65.0	2.7
	Males	174,574	70.6	71.0	2.7
Second	Females	7,807	65.4	65.0	2.9
	Males	124,338	70.5	71.0	2.7
Third	Females	20,785	65.4	65.0	3.0
	Males	260,478	70.5	70.0	2.8
All Classes	Females	39,208	65.4	65.0	2.9
	Males	559,390	70.5	71.0	2.7

*44 airmen missing height

Table 15. Height by Issued Medical Class and Gender

Height*	Issued Medical Class						Total Airmen	
	First		Second		Third			
	Female	Male	Female	Male	Female	Male	Female	Male
<59	37	182	49	145	158	316	244	643
59	43	56	45	72	123	150	211	278
60	165	110	156	146	462	331	783	587
61	348	92	254	116	756	291	1,358	499
62	744	162	588	147	1,634	431	2,966	740
63	1,038	382	801	281	2,142	821	3,981	1,484
64	1,496	1,119	1,059	891	2,865	2,110	5,420	4,120
65	1,481	2,526	1,080	1,846	2,862	4,214	5,423	8,586
66	1,619	5,851	1,187	4,584	2,908	9,686	5,714	20,121
67	1,328	10,349	910	7,476	2,304	16,012	4,542	33,837
68	983	16,448	657	12,045	1,734	25,434	3,374	53,927
69	592	20,904	403	15,118	1,128	30,877	2,123	66,899
70	375	26,289	267	18,826	732	39,948	1,374	85,063
71	182	23,798	139	17,455	406	36,101	727	77,354
72	100	26,486	118	18,559	266	37,790	484	82,835
73	39	15,649	44	10,533	117	22,077	200	48,259
74	19	12,201	24	8,051	93	16,687	136	36,939
75	10	6,219	14	4,099	48	8,781	72	19,099
76	9	3,702	6	2,495	28	5,226	43	11,423
77	4	1,229	3	871	8	1,849	15	3,949
78+	4	820	3	582	11	1,346	18	2,748
Total	10,616	174,574	7,807	124,338	20,785	260,478	39,208	559,390

*44 airmen missing height and/or gender

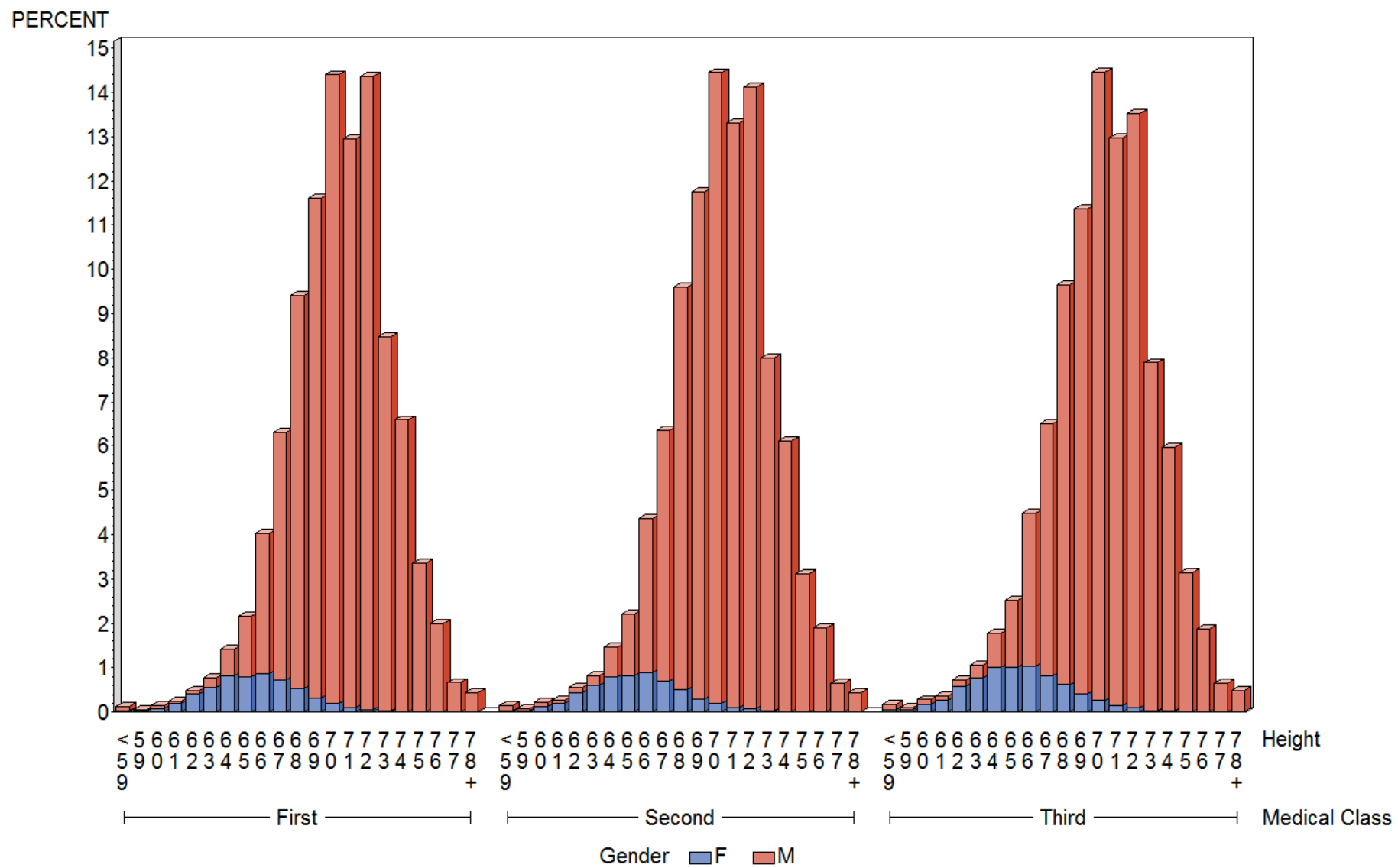


Figure 15. Height by Gender and Issued Medical Class

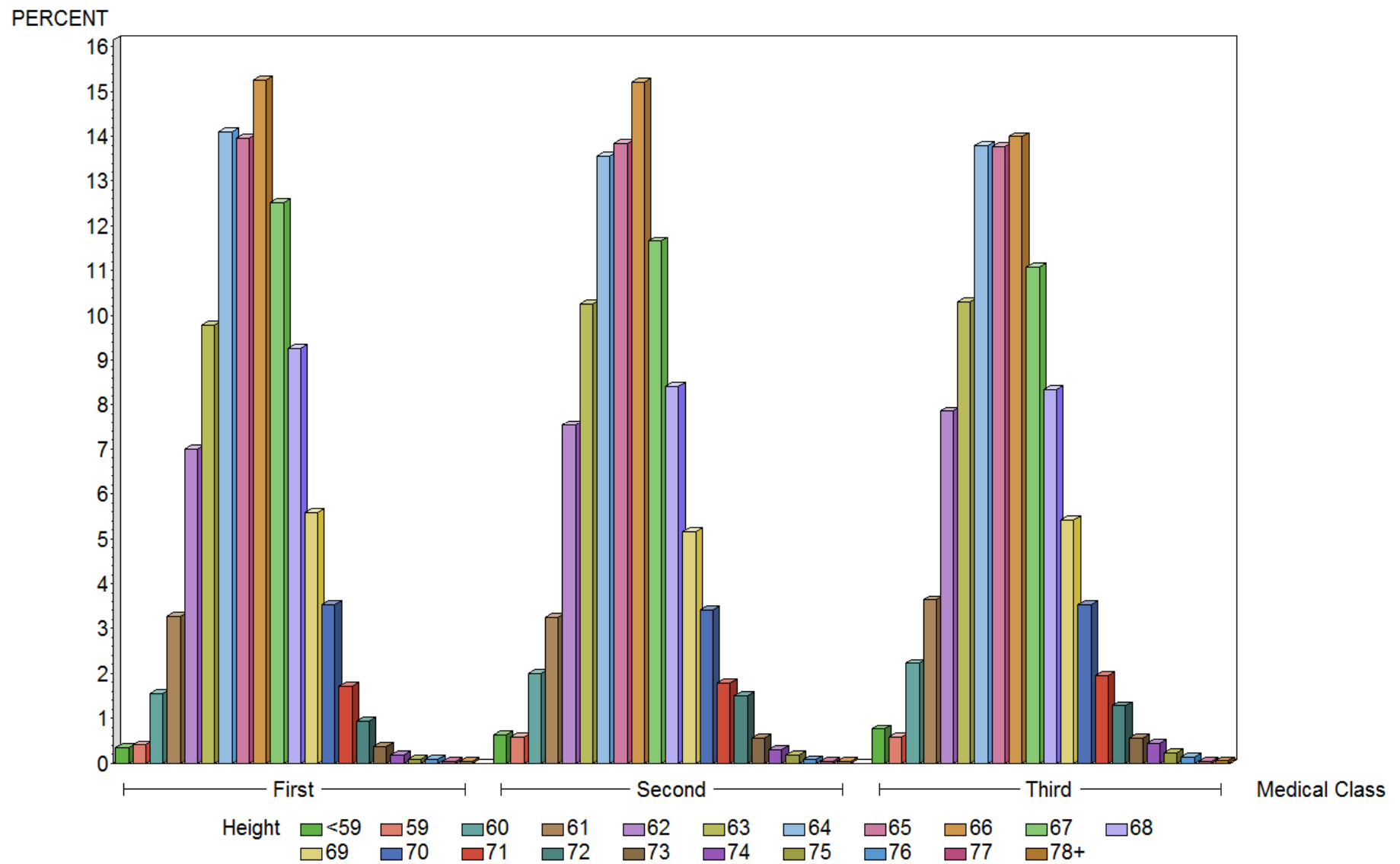


Figure 16. Height by Issued Medical Class – Females only

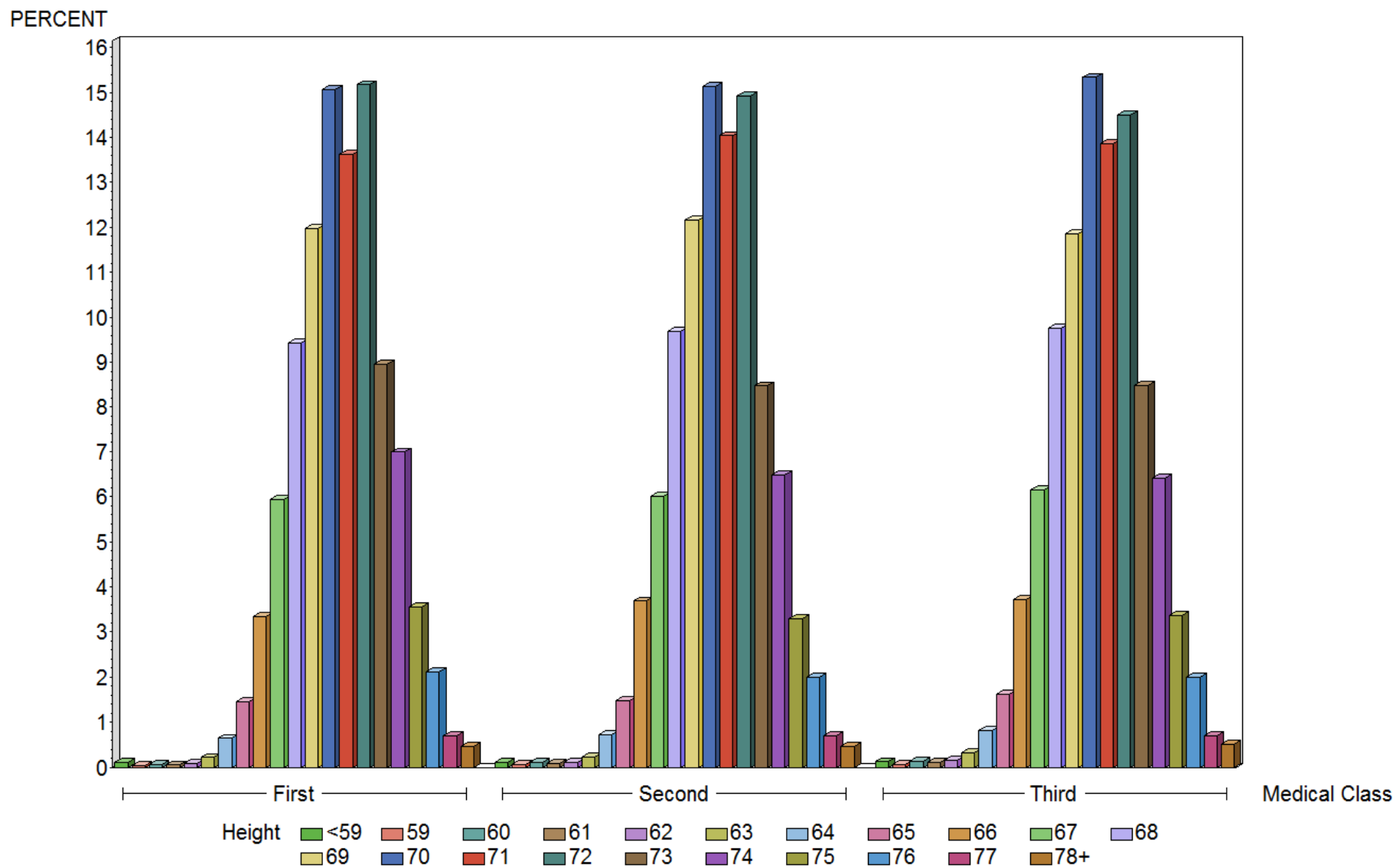


Figure 17. Height by Issued Medical Class – Males only

Table 16. Weight of all Active Airmen by Gender and Issued Medical Class

Issued Medical Class*		Number of airmen	Mean	Median	Standard Deviation
First	Females	10,615	144.2	139.0	28.2
	Males	174,572	190.5	187.0	32.6
Second	Females	7,807	149.7	143.0	31.8
	Males	124,329	194.2	190.0	33.7
Third	Females	20,782	148.2	142.0	30.7
	Males	260,459	194.1	190.0	34.5
All Classes	Females	39,204	147.4	141.0	30.3
	Males	559,360	193.0	190.0	33.8

*78 missing weight

Table 17. Weight by Issued Medical Class and Gender

Weight*	Issued Medical Class							
	First		Second		Third		Total Airmen	
	Female	Male	Female	Male	Female	Male	Female	Male
<100	106	60	51	25	131	59	288	144
100-109	400	145	256	62	719	163	1,375	370
110-119	1,085	599	696	290	1,868	685	3,649	1,574
120-129	1,769	1,623	1,147	973	3,204	2,170	6,120	4,766
130-139	2,027	3,900	1,265	2,397	3,536	5,036	6,828	11,333
140-149	1,616	7,396	1,203	4,543	3,106	10,234	5,925	22,173
150-159	1,156	12,602	843	7,967	2,403	17,181	4,402	37,750
160-169	772	18,187	637	11,635	1,674	24,655	3,083	54,477
170-179	557	22,537	482	14,726	1,252	31,144	2,291	68,407
180-189	377	24,307	341	16,607	866	34,478	1,584	75,392
190-199	254	21,735	255	15,385	613	31,661	1,122	68,781
200-209	125	17,792	187	13,504	398	27,225	710	58,521
210-219	115	13,412	138	10,573	291	21,371	544	45,356
220-229	85	9,989	108	7,982	235	16,825	428	34,796
230-239	69	7,067	69	5,803	163	11,808	301	24,678
240-249	37	4,545	50	4,011	107	8,359	194	16,915
250-259	22	3,064	22	2,699	79	5,674	123	11,437
260-269	14	2,023	16	1,765	50	3,834	80	7,622
270-279	13	1,271	14	1,143	36	2,681	63	5,095
280+	16	2,318	27	2,239	51	5,216	94	9,773
Total	10,615	174,572	7,807	124,329	20,782	260,459	39,204	559,360

*78 airmen missing weight and/or gender

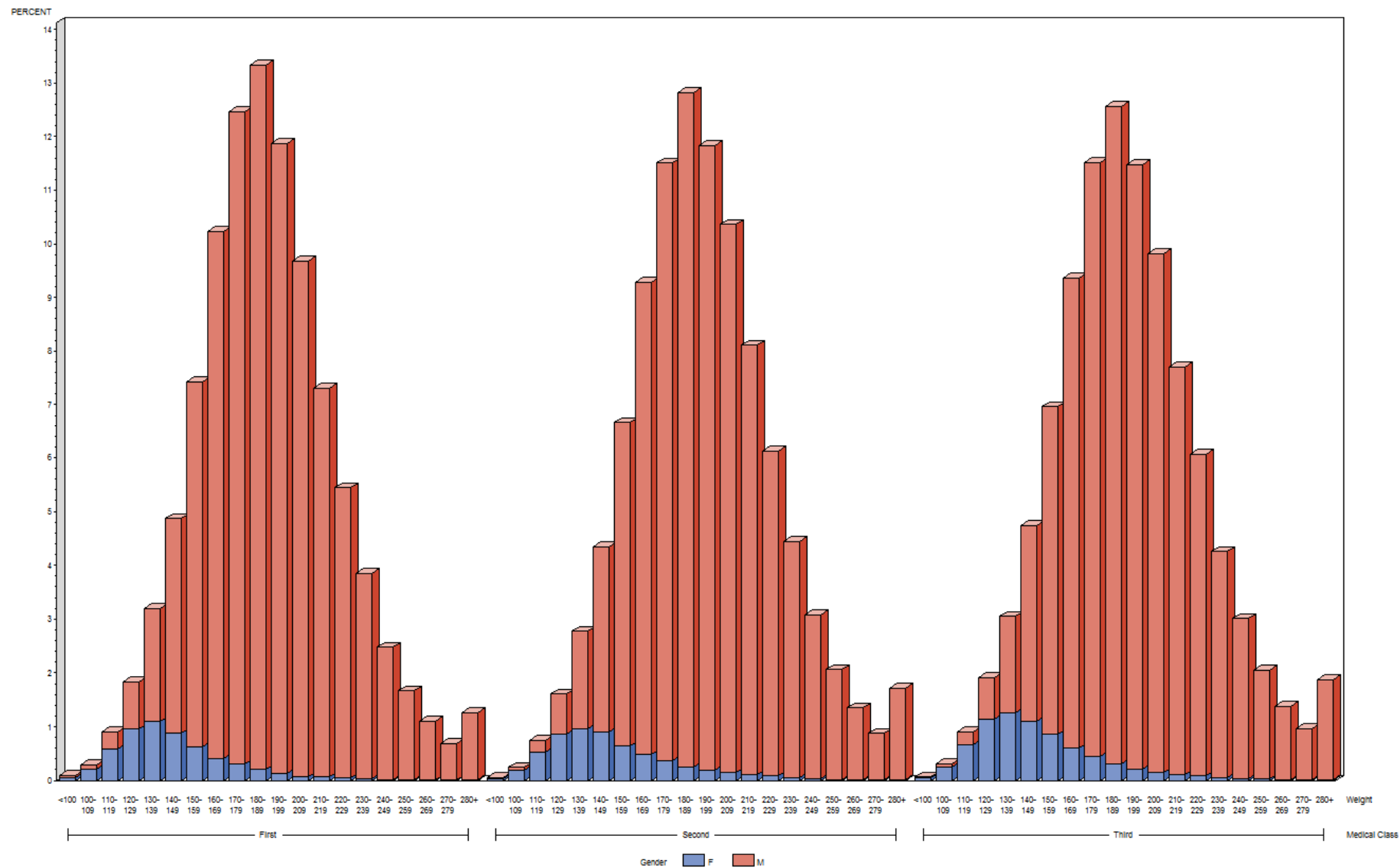


Figure 18. Weight by Gender and Issued Medical Class

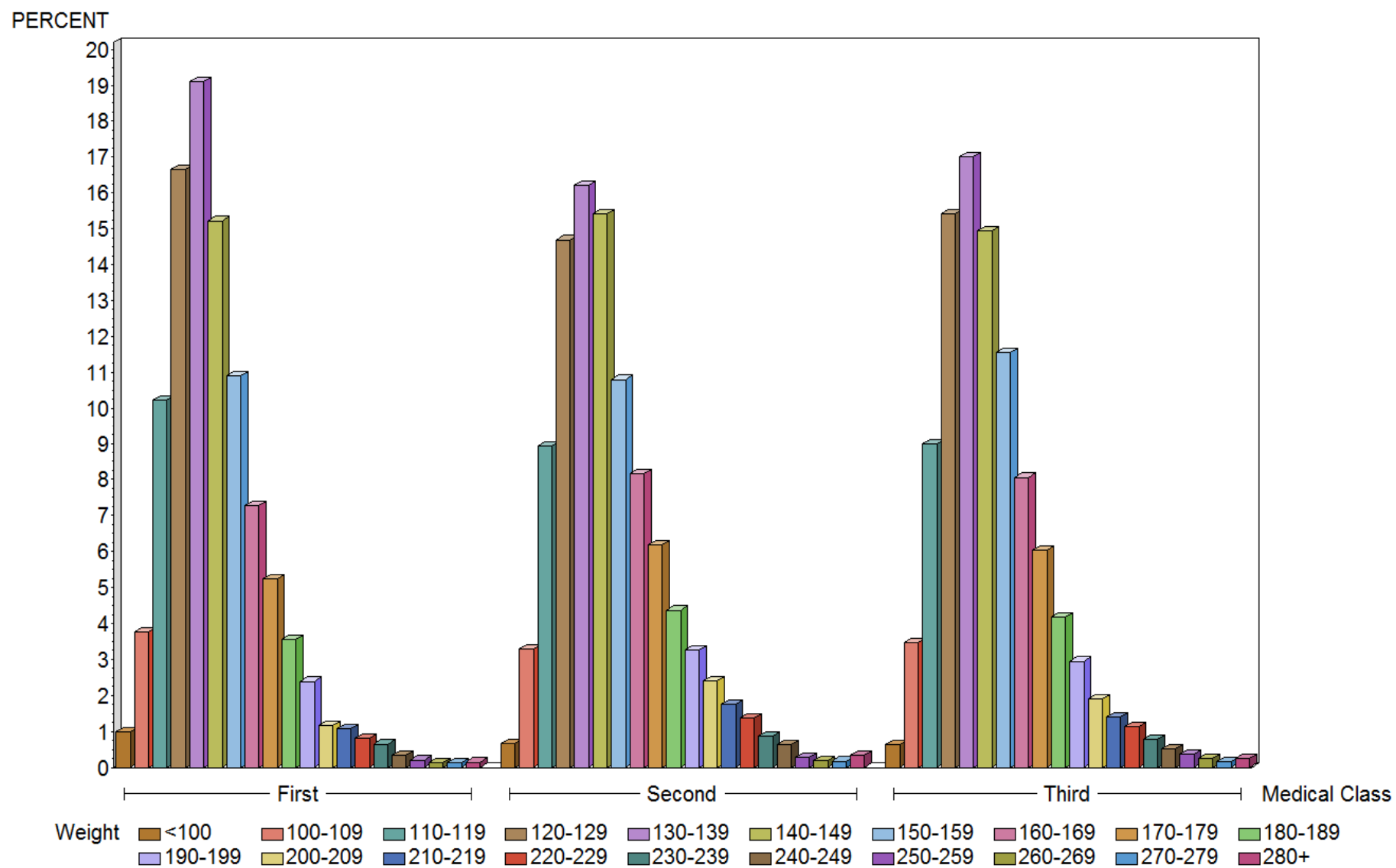


Figure 19. Weight by Issued Medical Class – Females only

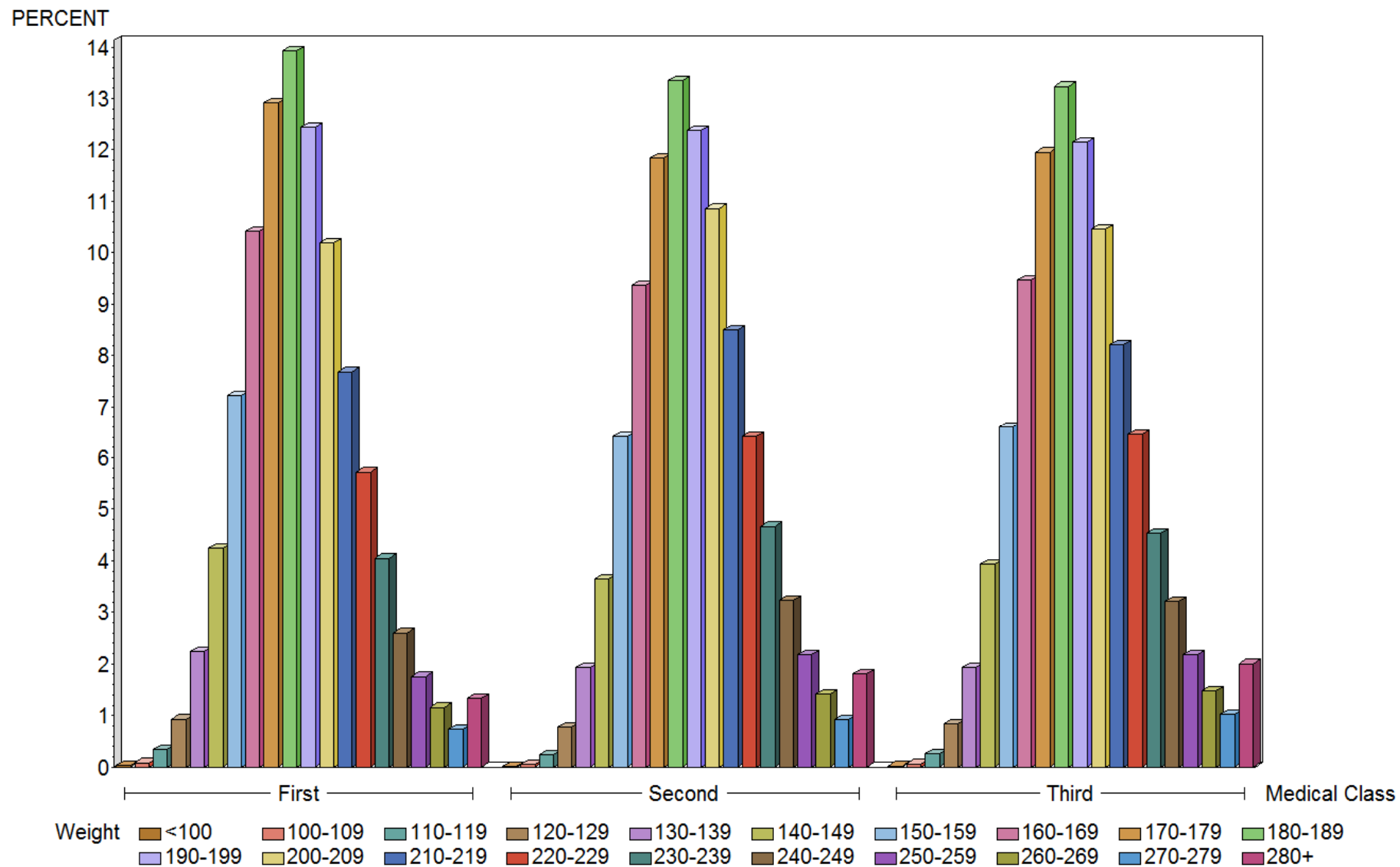


Figure 20. Weight by Issued Medical Class – Males only

Table 18. BMI of all Active Airmen by Gender and Issued Medical Class

Issued Medical Class*		Number of airmen	Mean	Median	Standard Deviation
First	Females	10,614	23.6	22.7	4.2
	Males	174,561	26.8	26.4	4.2
Second	Females	7,807	24.5	23.4	4.8
	Males	124,326	27.5	27.0	4.4
Third	Females	20,781	24.3	23.3	4.6
	Males	260,447	27.5	27.0	4.5
All Classes	Females	39,202	24.2	23.2	4.5
	Males	559,334	27.3	26.8	4.4

*106 airmen missing BMI

Table 19. BMI Category by Issued Medical Class and Gender

BMI*	Issued Medical Class							
	First		Second		Third		Total Airmen	
	Female	Male	Female	Male	Female	Male	Female	Male
Underweight	512	1,521	267	807	708	1,810	1,487	4,138
Normal	7,147	58,175	4,718	35,775	12,910	76,359	24,775	170,309
Overweight	2,132	81,567	1,829	57,783	4,939	119,001	8,900	258,351
Obese	823	33,298	993	29,961	2,224	63,277	4,040	126,536
Total	10,614	174,561	7,807	124,326	20,781	260,447	39,202	559,334

*106 airmen missing BMI and/or gender

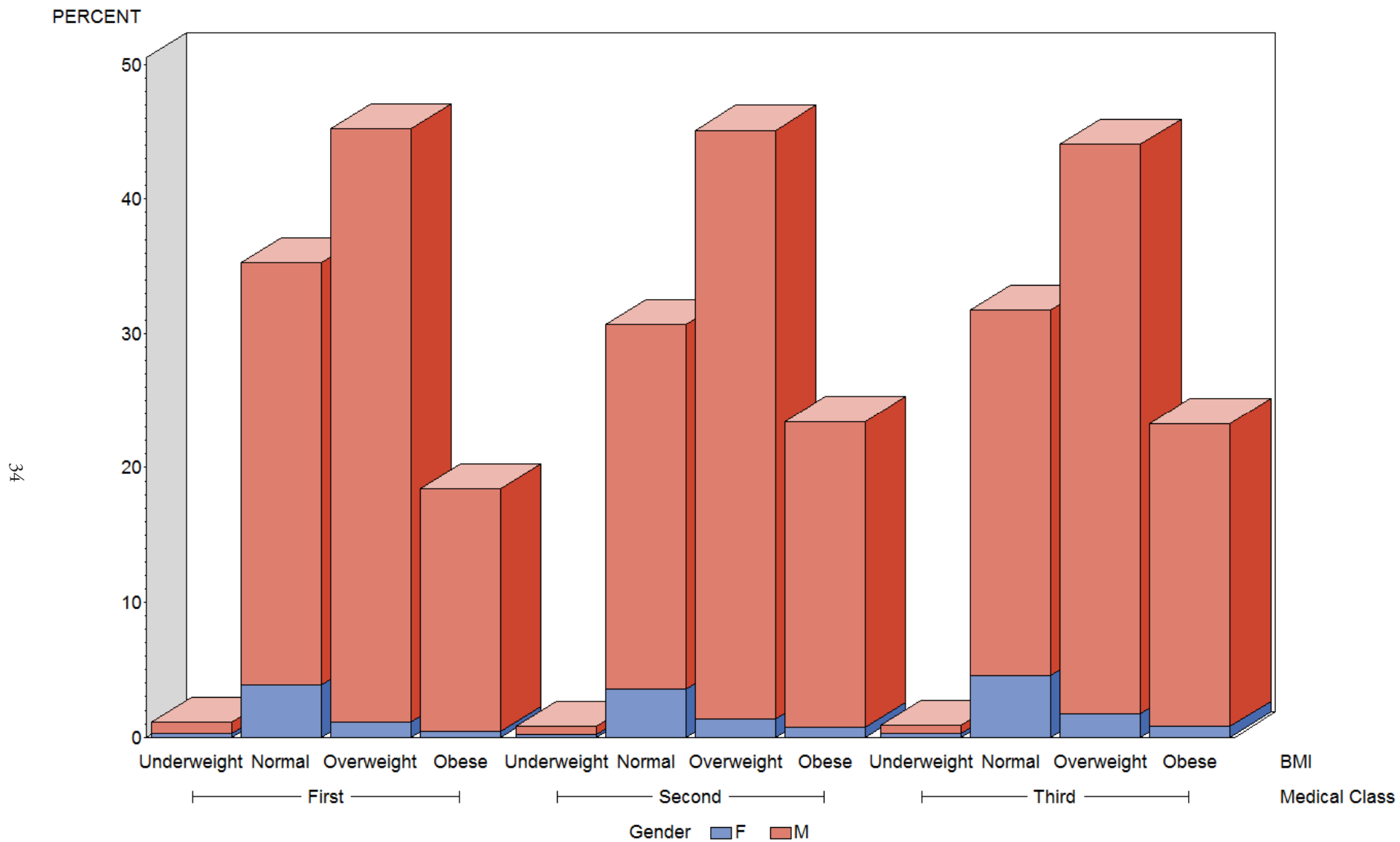


Figure 21. BMI by Gender and Issued Medical Class

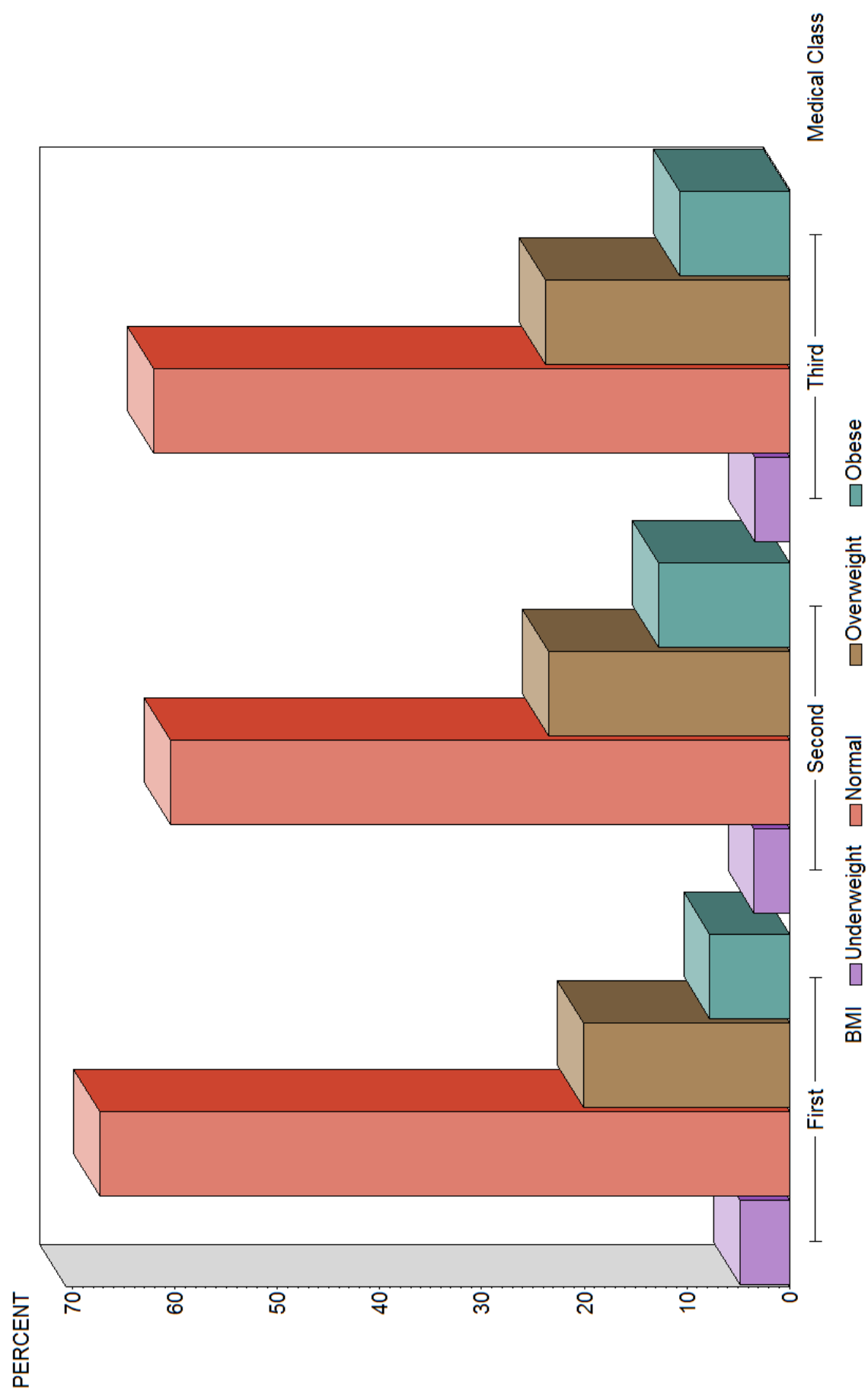


Figure 22. BMI by Issued Medical Class – Females only

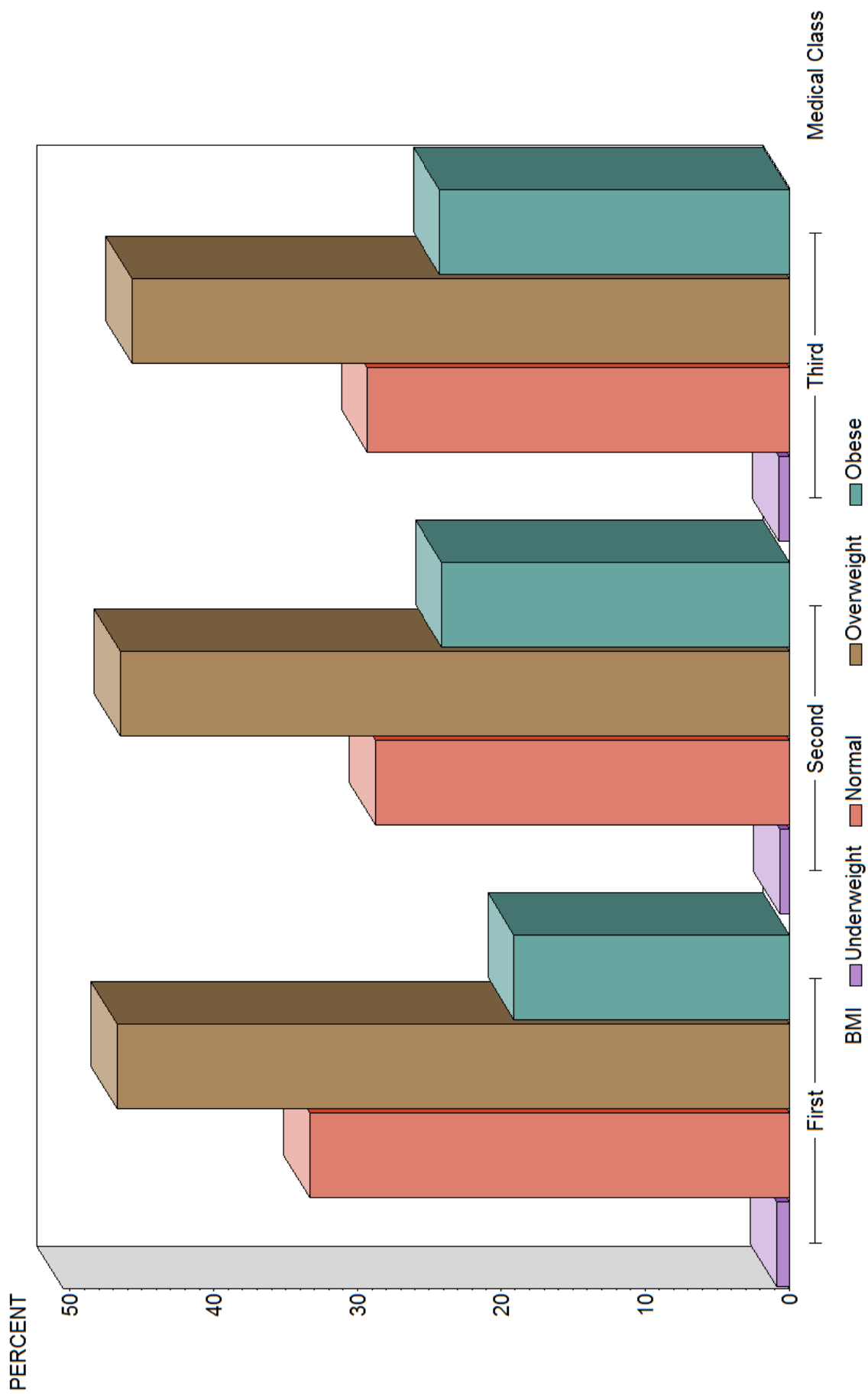


Figure 23. BMI by Issued Medical Class – Males only

Table 20. Special Issuance by Issued Medical Class, Gender, Age, and BMI

		Special Issuance	
		Yes (Percent)	No (Percent)
Class Issued	First	8,149 (4.40)	177,057 (95.60)
	Second	6,693 (5.06)	125,460 (94.94)
	Third	21,625 (7.69)	259,658 (92.31)
Gender	Female	1,375 (3.51)	37,835 (96.49)
	Male	35,092 (6.27)	524,340 (93.73)
Age at Exam	16-20	542 (1.37)	38,945 (98.63)
	20-24	723 (1.08)	66,180 (98.92)
	25-29	797 (1.34)	58,482 (98.66)
	30-34	963 (1.83)	51,730 (98.17)
	35-39	1,337 (2.26)	57,777 (97.74)
	40-44	1,870 (4.01)	44,728 (95.99)
	45-49	3,213 (5.18)	58,833 (94.82)
	50-54	4,928 (7.57)	60,136 (92.43)
	55-59	5,741 (10.37)	49,601 (89.63)
	60-64	5,984 (13.91)	37,037 (86.09)
	65+	10,369 (21.12)	38,726 (78.88)
BMI*	Underweight	112 (1.99)	5,513 (98.01)
	Normal	7,701 (3.95)	187,383 (96.05)
	Overweight	16,927 (6.33)	250,324 (93.67)
	Obese	11,723 (8.98)	118,853 (91.02)
Total		36,467 (6.09)	562,175 (93.90)

*106 airmen missing BMI

Percent with Special Issuance

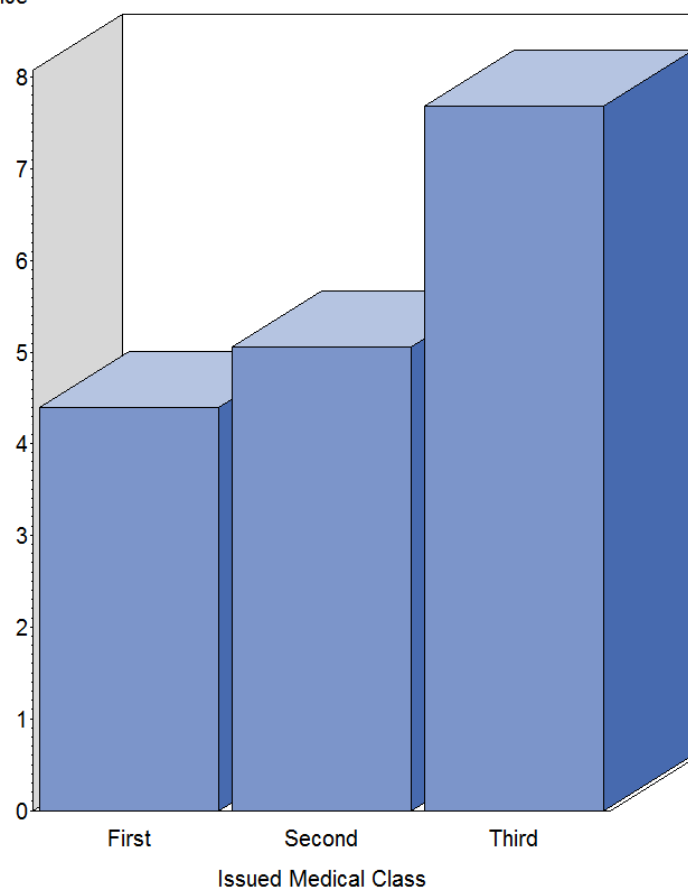


Figure 24. Special Issuance by Issued Medical Class

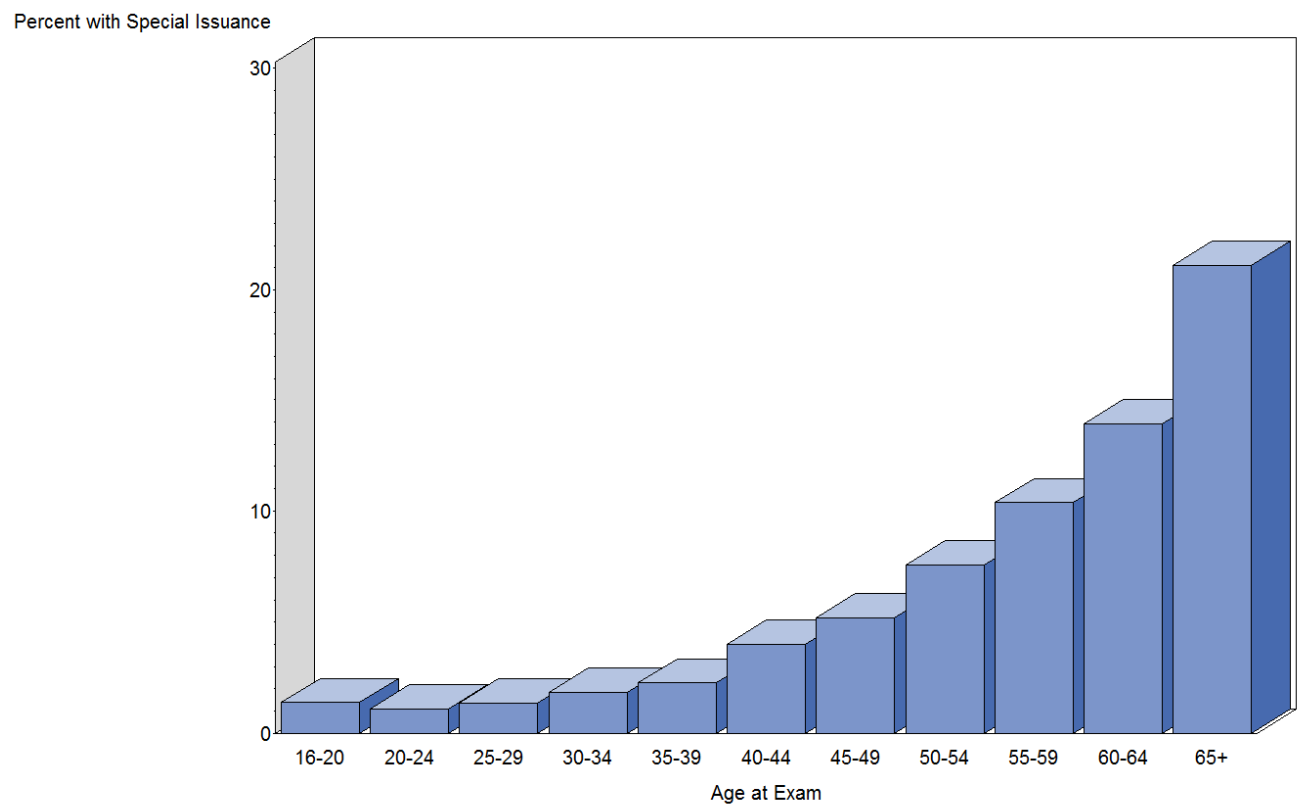


Figure 25. Special Issuance by Age Group at Time of Exam

Percent with Special Issuance

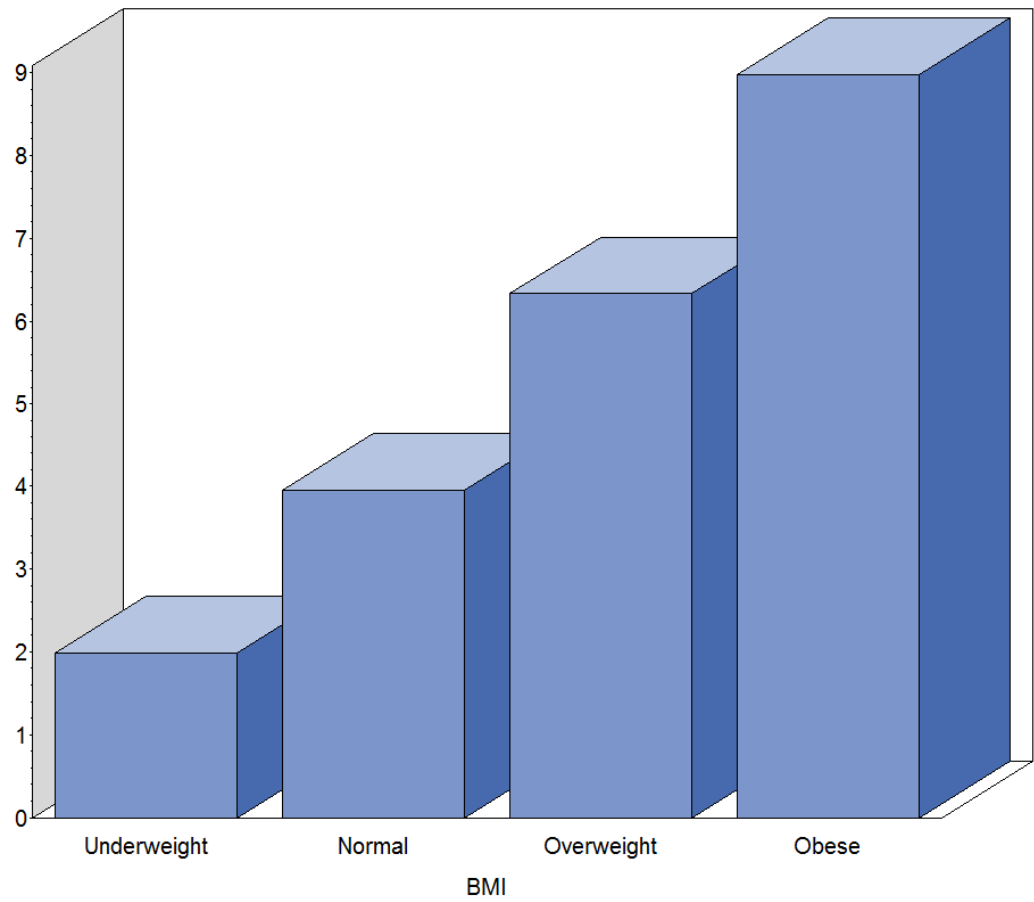


Figure 26. Special Issuance by BMI Category

Table 21. Top 15 Reported Medical Conditions

Pathology Description	Number	Percent
Hypertension with medication	64,434	10.76
Other miscellaneous allergic conditions*	37,662	6.29
Hernias – inguinal, femoral, umbilical, hiatal	31,724	5.30
Urolithiasis – stones or calculus of kidney, ureter, bladder	24,037	4.02
Male genital system – prostatic, varicocele, hydrocele, transurethral resection of prostate (TURP), spermatocele, benign prostatic hypertrophy (BPH)	22,827	3.81
Other esophagus, stomach, and duodenal conditions – severe gastritis, esophageal reflux, achalasia, GERD, gastropasty, dysphagia, dyspepsia, thrombus abdomen aorta [#]	21,902	3.66
Other skin conditions – includes acne, abnormal pigmentation, vitiligo, psoriasis, keratosis, neurofibroma, (basal cell carcinoma), adenoma, ganglio neuroma, fibroma, fibroadenoma, neuroma, Morton's neuroma, hemangioma [†]	15,570	2.60
Hayfever	15,446	2.58
Ruptured intervertebral disk, nucleus pulposus, spinal fusion, laminectomy and spinal stenosis, compression disc, other back surgeries	15,328	2.56
Other lower extremities conditions – operations, fractures, dislocation, knee replacement, knee reconstruction, ACL reconstruction [§]	13,863	2.32
Asthma	12,615	2.11
Neuroses – hysterical, hysterical-conversion type, hysterical-dissociative type, phobic, neurasthenic, depersonalization, hypochondriacal, adjustment disorder and other neurosis	12,178	2.03
Murmur – includes functional or physiological	10,301	1.72
Traumatic brain injury, concussion, amnesia, coma (30 minutes or more), loss of memory	10,197	1.70
Other general heart pathology (abnormal ECG, open heart surgery, etc.). Wolff-Parkinson-White syndrome, ablation, AV block, right bundle branch block, left bundle branch block [†]	9,998	1.67

* Excludes hayfever and asthma

[#] Excludes ulcers, gastrectomy, lapband staple bypass, gastric bypass, hernias, esophageal varices[†] Excludes dermatitis, pilonidal cyst, significant scarring, melanoma, squamous cell carcinoma[§] Excludes deformity of toes, foot, or leg, diseases (synovitis, arthritis, bursitis, osteomyelitis, neoplasms, polymyaglia rheumatica, etc.), rheumatoid arthritis, unstable knee (locked knee, herniated meniscus, no patella)[†] Excludes cardiomyopathy, pacemaker, cardiac stents, cardiac angioplasty

Table 22. Medical Conditions by Issued Medical Class

		Issued Medical Class			Total
		First	Second	Third	
Vision	Color vision deficiency	1,553 (0.84)	991 (0.75)	1,894 (0.67)	4,438 (0.74)
	Monocular vision	255 (0.14)	390 (0.30)	1,353 (0.48)	1,998 (0.33)
Transplants	Lung transplant	1 (0.00)	1 (0.00)	1 (0.00)	3 (0.00)
	Heart transplant	0 (0.00)	0 (0.00)	3 (0.00)	3 (0.00)
	Liver transplant	8 (0.00)	6 (0.00)	42 (0.01)	56 (0.01)
	Kidney transplant	33 (0.02)	24 (0.02)	76 (0.03)	133 (0.02)
Cardiac	Myocardial infarction	520 (0.28)	365 (0.28)	2,187 (0.78)	3,072 (0.51)
	Coronary angioplasty with a stent	708 (0.38)	498 (0.38)	2,982 (1.06)	4,188 (0.70)
	Coronary angioplasty procedure	210 (0.11)	172 (0.13)	810 (0.29)	1,192 (0.20)
	Coronary artery bypass surgery	354 (0.19)	254 (0.19)	2,067 (0.73)	2,675 (0.45)
	Implanted pacemaker	57 (0.03)	59 (0.04)	322 (0.11)	438 (0.07)
	Aortic valve conditions*	445 (0.24)	355 (0.27)	1,293 (0.46)	2,093 (0.35)
	Mitral valve conditions [#]	591 (0.32)	469 (0.35)	1,568 (0.56)	2,628 (0.44)
	Hypertension with medication	12,451 (6.72)	13,548 (10.25)	38,435 (13.66)	64,434 (10.76)

Table 22 (Continued). Medical Conditions by Issued Medical Class

		Medical Class Issued			Total
		First	Second	Third	
Alcohol and Drugs	Alcohol abuse/dependence	1,677 (0.91)	956 (0.72)	1,752 (0.62)	4,385 (0.73)
	Drug abuse/dependence	679 (0.37)	540 (0.41)	759 (0.27)	1,978 (0.33)
	Alcohol/Drug case monitored	868 (0.47)	57 (0.04)	12 (0.00)	937 (0.16)
	Alcohol related offense [‡]	9,743 (5.26)	7,521 (5.69)	13,997 (4.98)	31,261 (5.22)
	Drug related offense/misuse [§]	506 (0.27)	548 (0.41)	920 (0.33)	1,974 (0.33)
Other conditions of interest	Sleep apnea	1,373 (0.74)	1,150 (0.87)	2,668 (0.95)	5,191 (0.87)
	Applied for SSRI use	6 (0.00)	11 (0.01)	45 (0.02)	62 (0.01)
	SSRI special issuance	5 (0.00)	2 (0.00)	5 (0.00)	12 (0.00)
	Diabetes [†]	901 (0.49)	1,296 (0.98)	4,323 (1.54)	6,520 (1.09)

* Includes aortic valvular disease, aortic stenosis, aortic regurgitation, aortic insufficiency, bicuspid aortic valve, also replacement, ruptured aorta or lacerated, aortic bruit

Includes mitral valve disease, mitral stenosis, mitral regurgitation, mitral insufficiency. Does not include valve replacement.

[‡] Includes DUI, DWI, public intox, wet/reckless, .04-.09 blood alcohol

[§] Includes drug offenses and positive drug test other than Drug Industry Program (Failed Drug Testing)

[†] Controlled by hypoglycemic drugs or insulin

